Harmar®

America's Lift Leader™

P-350 / P-350P / P-350S Pool Lift

350 lbs [159 kg] Maximum Capacity

READ AND FOLLOW ALL OF THE INSTRUCTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION OR OPERATION OF THE LIFT.

(LEAVE THIS MANUAL WITH OWNER OF LIFT)

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This manual has been provided to assist you with lift installation and operation. For further assistance please contact your authorized Harmar dealer or Harmar's Technical Service Department.

Harmar

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Sarasota, FL 34234
Tel: 800-833-0478
Tech: 866-378-6648
Fax: 941-308-7399
Email: tech@harmar.com

FILL IN THE FOLLOWING FIELDS TO KEEP FOR YOUR RECORDS:

PRODUCT INFORMATION
Model:_____
Serial Number:_____
Purchase Date:_____

DEALER/INSTALLER INFORMATION
Company Name:_____
Contact Name:_____
Address:_____

_____
Phone Number:_____
Fax Number:_____
Email:_____

DANGER - Failure to follow these Warnings, Instructions, and Owner's Manual may result in serious injury or death

WARNING

- **WEIGHT LIMIT:** Limit for use is ONE (1) person weighing less than the maximum weight of 350lb [159kg]. Use only for the transfer of a single user, not as a hoist or crane.
- Seat belt is to be used at all times during transfer.
- Always make sure the area around lift is clear before operating. Never operate the lift with any person(s) within the operating range of the lift, including on the deck and/or in the water.
- **ADULT USE ONLY:** When in use, the lift is to be operated under the supervison of an adult. Children should never operate nor play on or around the lift at any time.
- **NO JUMPING/DIVING/CLIMBING**: Do not jump or dive from or climb on the lift.
- **PINCH/CRUSH HAZARD:** Always keep hands, fingers, legs and toes clear of lift arm, base, and other moving parts when in use.
- Save a copy of these instructions in a safe and easily accessible place.

CAUTION

- **BATTERY CHARGE:** Always have the battery on the charger charging when not in use. NEVER leave the battery on the lift when not in use.
- DO NOT allow excessive moisture to collect in the battery case. It can affect battery and lift performance and could lead to battery failure and/or the lift failing to operate.
- DO NOT use the seat/seat frame or actuator to move or reposition the lift.
- NEVER apply direct water pressure to the electronic components

WARNING

Limit for use is one (1) person weighing less than the maximum weight of
350LB [159KG]

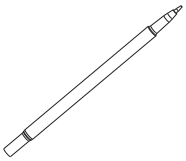
SIGNAL WORDS	DEFINITION
WARNING	Indicates a hazardous situation that if not avoided, could result in moderate to serious injury.
CAUTION	Indicates a hazardous situation that if not avoided, could result in moderate to serious property damage.

SUGGESTED TOOLS

The following is a suggested list of basic tools to have on hand during installation. Harmar lifts are designed to install with as little assembly by the installer as possible.

HAMMER DRILL

TAPE MEASURE



MARKING IMPLEMENT

MASONRY DRILL BIT
SPECIFICALLY

5/8"

SOCKET SET
SPECIFICALLY

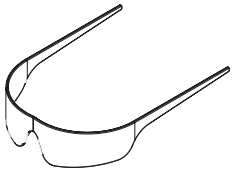
7/16"
3/8"
1/2"
9/16"
3/4"
17mm

WRENCH SET
SPECIFICALLY

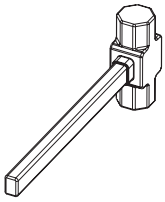
7/16"
3/8"
1/2"
9/16"
3/4"
17mm

ALLEN WRENCH
SPECIFICALLY

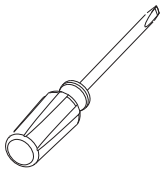
1/8"
5/32"
3/16"
7/32"
5/16"
3/8"
8mm



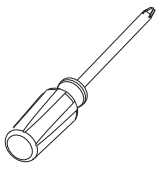
SAFETY GLASSES



HAMMER



FLAT HEAD SCREWDRIVER



PHILLIPS HEAD SCREWDRIVER

As always, if you have any questions, concerns or comments, please feel free to contact Harmar's Technical Service Department at 866-378-6648 or "tech@harmar.com"

ADA GUIDELINES (USA only)

Before installing the P350 Lifts, it is necessary to select the correct location for the Mounting Base. The P350 Lifts can be installed in a wide variety of locations, but the owner and installer should be aware of the regulations set forth by the Americans with Disabilities Act (ADA) with concern to lift installations. Fig. 1 below, shows an example of an ADA compliant installation, which incorporates the following ADA rules in order to be compliant;

- **1009.2.1 POOL LIFT LOCATION:** Pool lifts must be located where the water level does not exceed 48 inches [1220mm], unless the entire pool is greater than 48" deep.
  (Harmar requires a minimum pool depth of 40".)

- **1009.2.2 SEAT LOCATION:** In the raised position, the centerline of the seat shall be located over The deck and 16 inches [405mm] minimum from the edge of the pool wall. The deck surface Between the centerline of the seat and the pool edge shall have a slope no greater than 1:48.

- **1009.2.3 CLEAR DECK SPACE:** On the side of the seat opposite the water, a clear deck space shall be provided parallel with the seat. The space shall be 36 inches [915mm] wide minimum and shall extend forward 48 inches [1220mm] from a line located 12 inches [305mm] behind the rear edge of the seat. The clear deck space shall have a slope not greater than1:48.

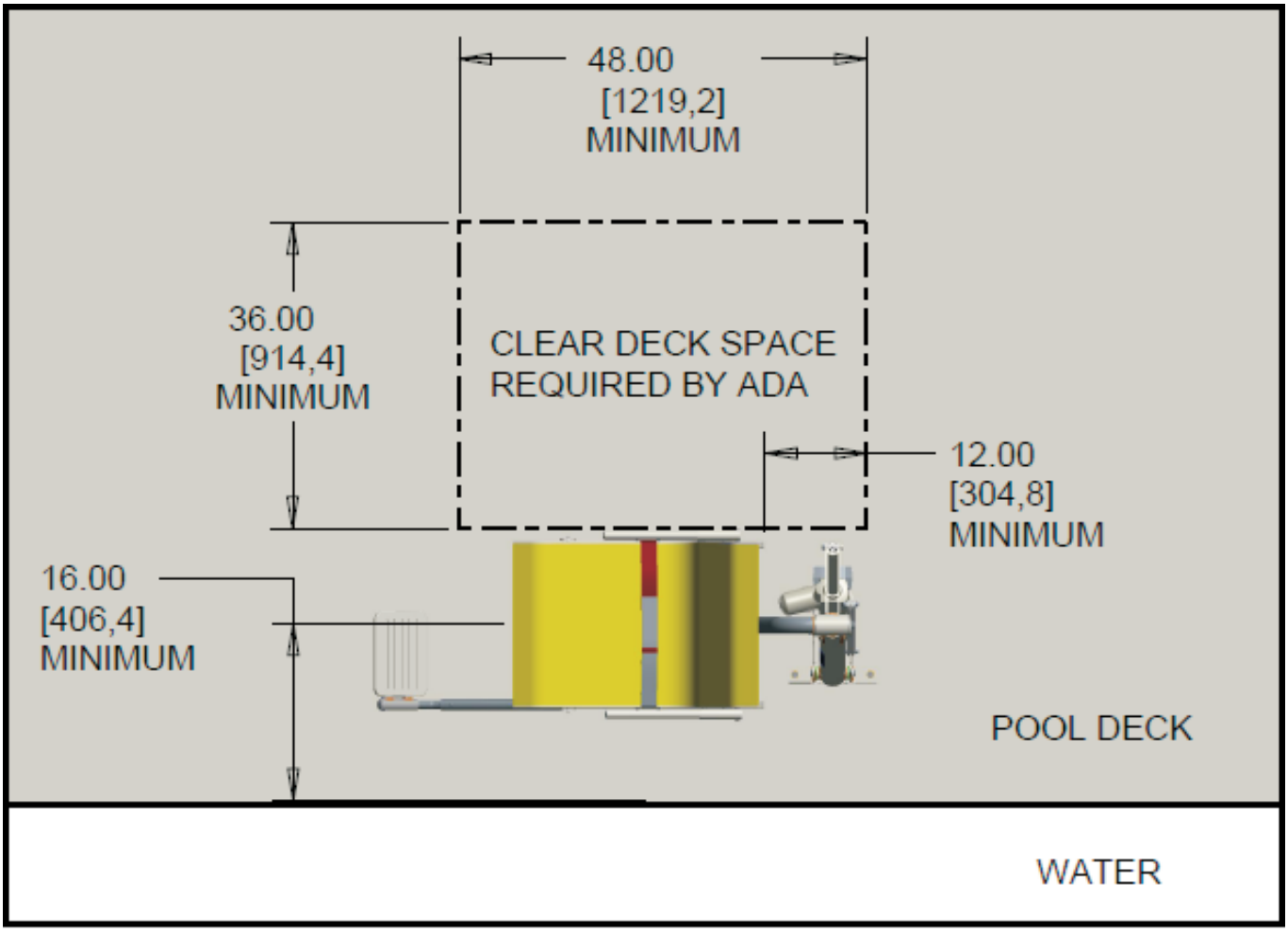
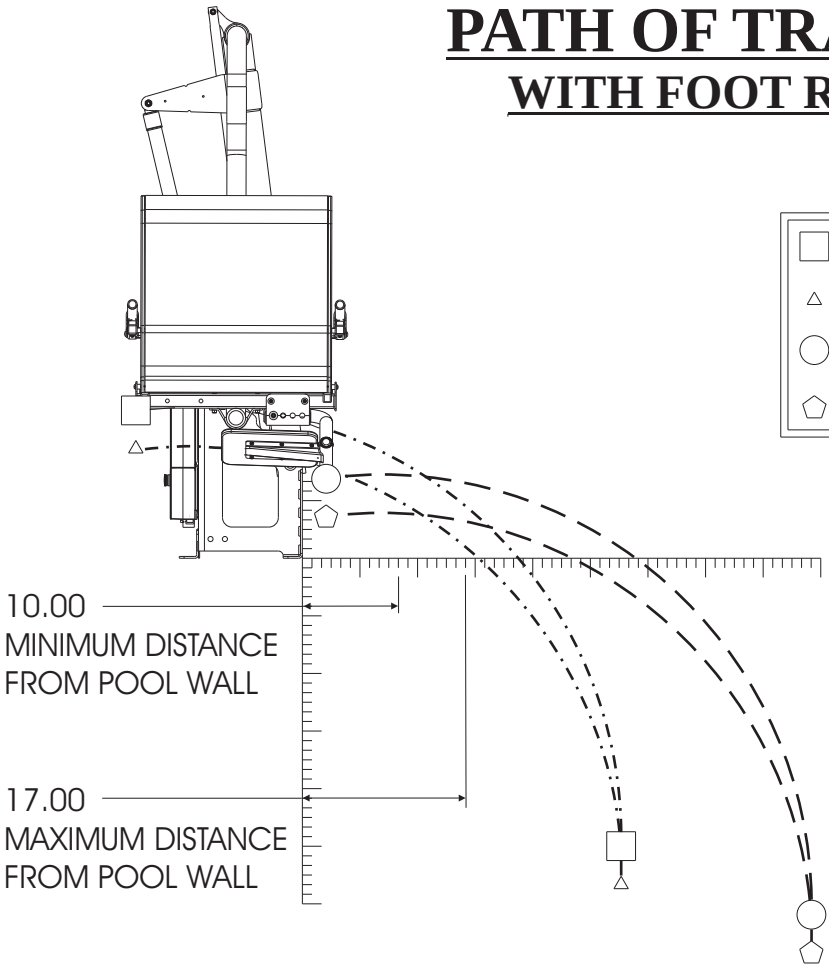
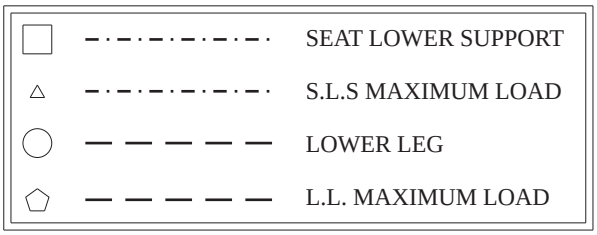


Fig 1: ADA Deck Requirement

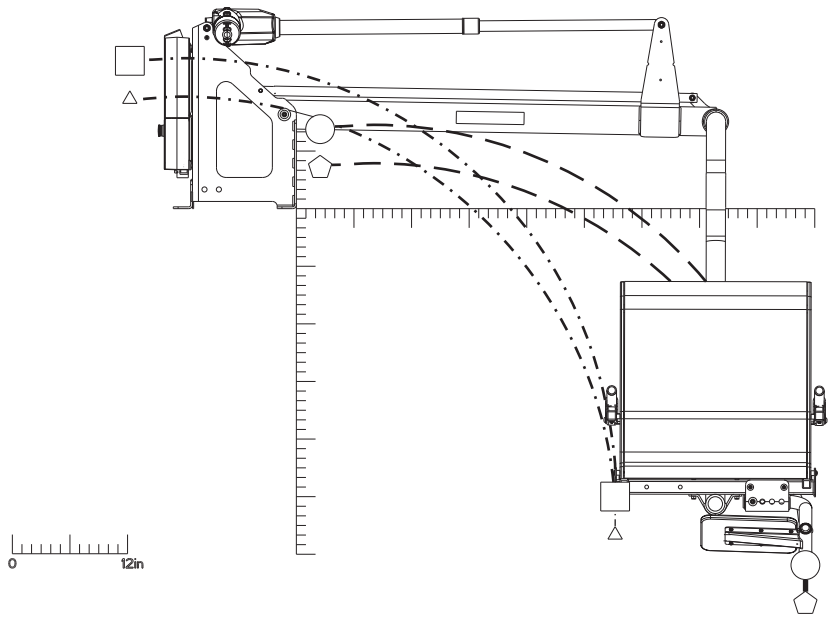
PATH OF TRAVEL
WITH FOOT REST



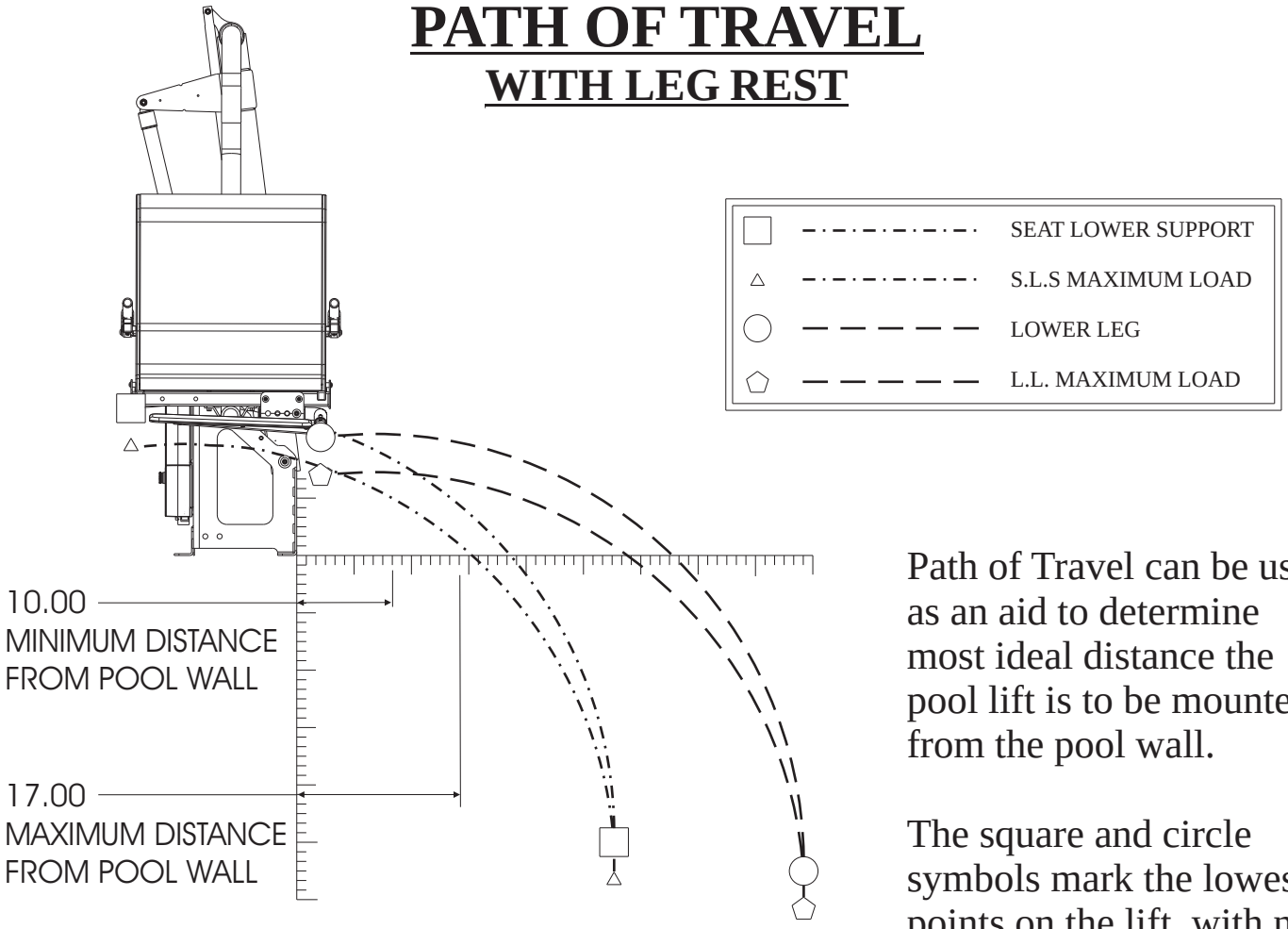


Path of Travel can be used as an aid to determine most ideal distance the pool lift is to be mounted from the pool wall.

The square and circle symbols mark the lowest points on the lift, with no load, that would be nearest to the pool wall and ground during travel.



PATH OF TRAVEL
WITH LEG REST



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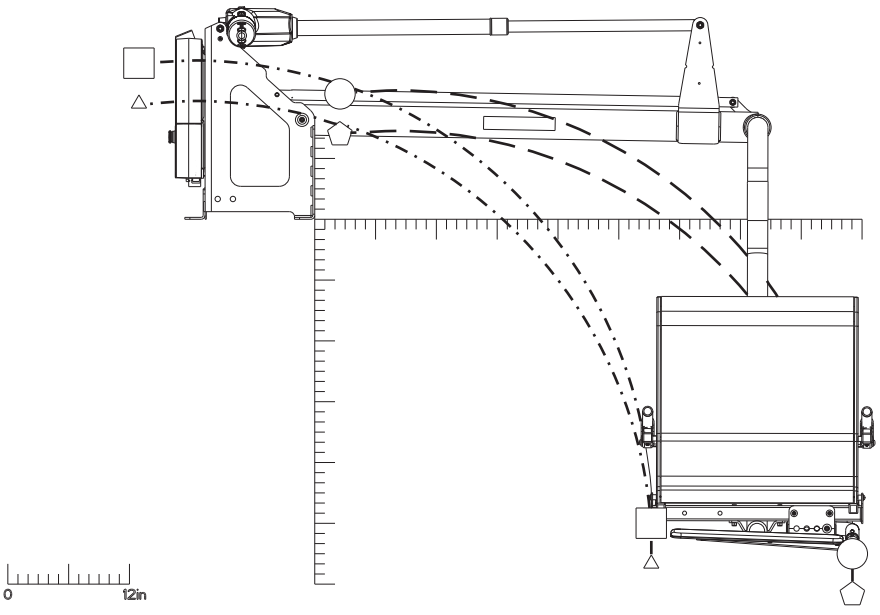


POOL DECK REQUIREMENTS

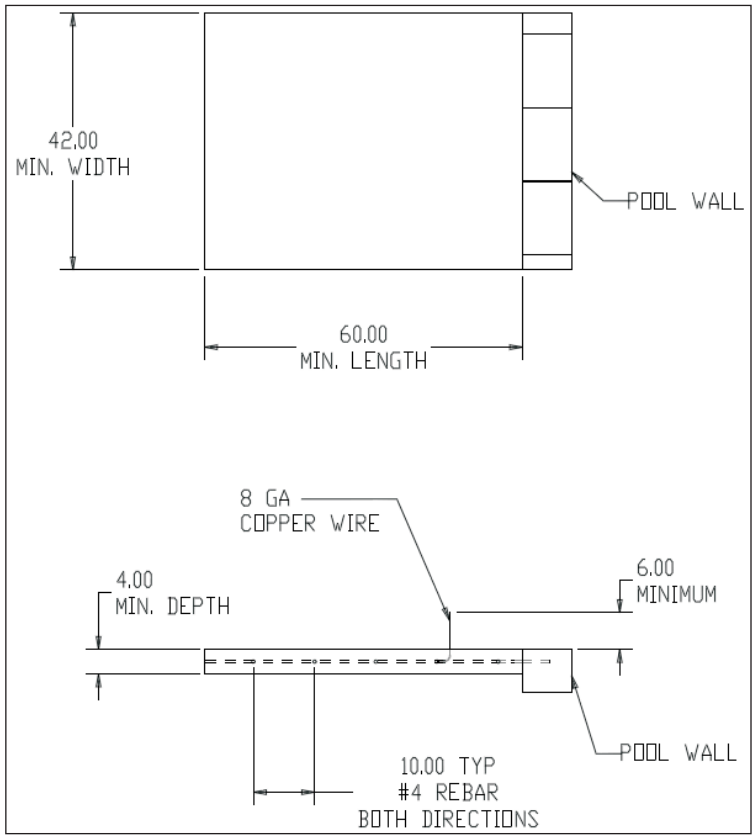


Fig 2: Minimum Deck Requirements

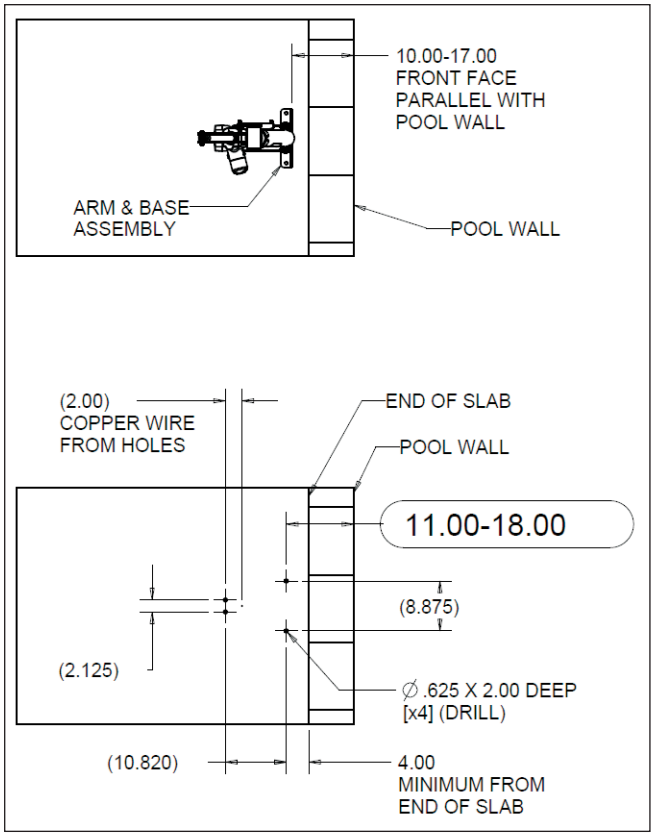


Fig 3: Lift Location and Hole Specifications

Minimum Deck Requirement:

- **Minimum concrete slab should be at least 60” x 42” x 4.00” thick, reinforced (#4 rebar) with a concrete strength of 3000PSI.**
- **Anchors must be installed a minimum of 4” or greater from the edge of the slab**
- **Existing slab does not exhibit any signs of cracking or deterioration.**

For proper installation into an existing deck, follow these guidelines.

1. To determine the proper area to install the lift, follow the ADA guidelines, Fig. 1.

2. Verify that the pool deck meets the minimum requirements above, also see Fig.2. If the deck does not meet these requirements, then the deck needs to be cut and replaced with a new slab that meet these requirements. The new slab needs to be reinforced with rebar and adhered with epoxy into the remaining existing deck. Simpson SET epoxy is recommended or equivalent for installation.

WARNING **When operating equipment, operator should ALWAYS wear Personal Protective Equipment**

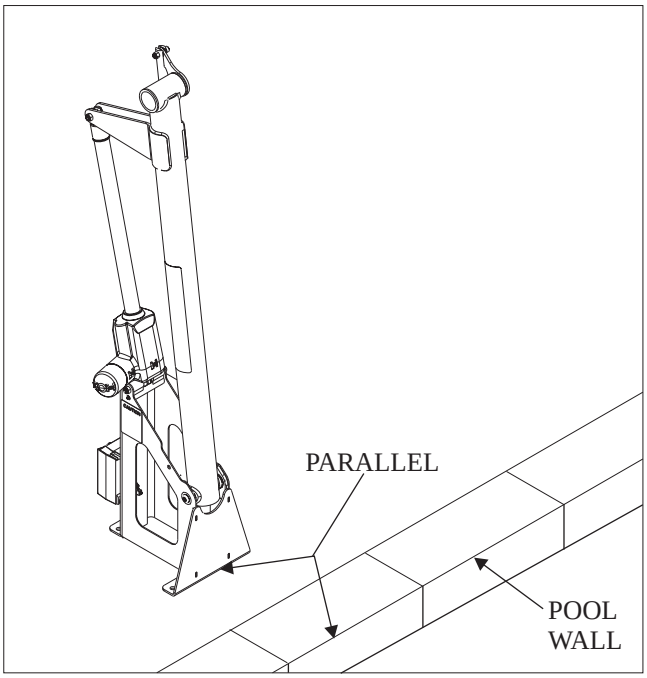


Fig 4: Lift base parallel with pool wall

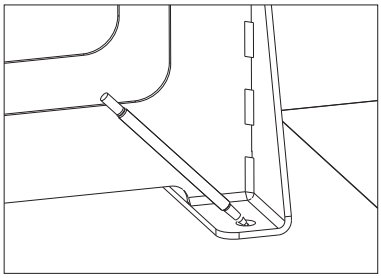


Fig 5: Mark hole locations

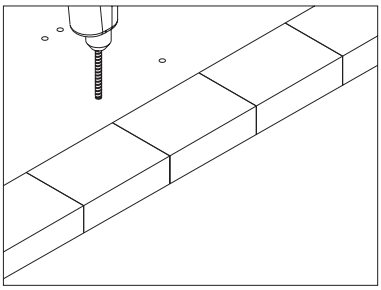


Fig 6: Drill four holes

3. Due to Local Electrical Code, it maybe necessary to Bond the Mounting Base to the pools Bonding Grid with 8ga Copper Wire. See Fig. 2 & 3 for location. Check your Local Electrical Code for proper Bonding.

4. To determine the proper location to install the lift, use Fig. 3 and the Arm & Base assembly as a template. Make sure that the lift is an appropriate distance away from the pool wall and that all holes to be drilled are at least 4" away from any edge of the deck or slab. DO NOT lift the assembly from the actuator.

5. Mark the four (4) hole locations of the base onto the deck, being sure that the Base is parallel with the pool wall and the Arm is facing the correct direction, Fig. 4 & 5.

6. Using the Hammer Drill and 5/8 Masonry Drill Bit, drill the four 5/8" diameter holes 2.00" deep. Make sure the Drill is square to the deck and drill straight down, Fig. 6. Use the Shop Vac to remove additional dust from holes and surrounding areas.

CAUTION **DO NOT drill too deep or the anchors will be too low for the supplied fasteners.**

WARNING **When operating equipment, operator should ALWAYS wear Personal Protective Equipment**

PAVER & SAND REQUIREMENTS

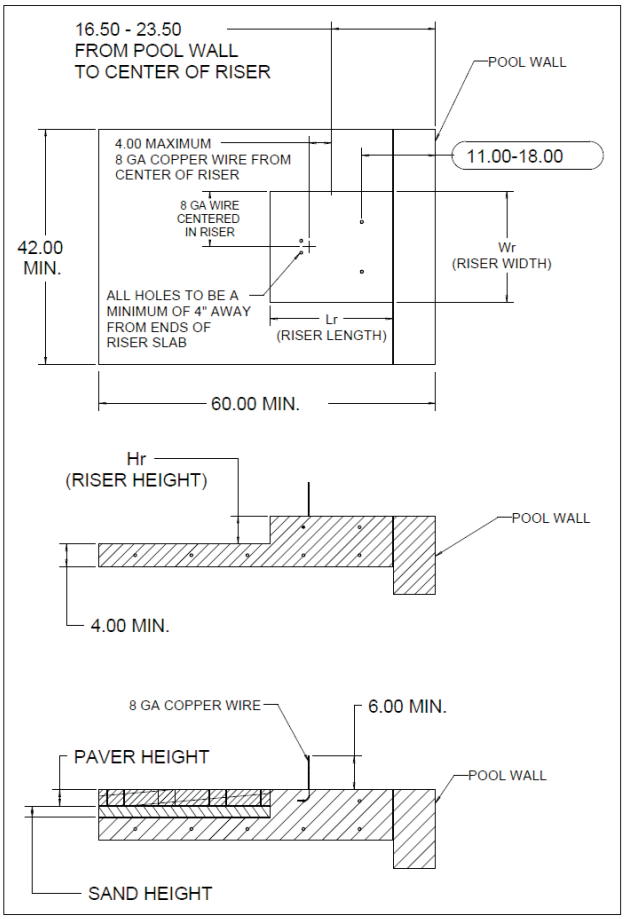


Fig 7: Concrete requirements for Paver & Sand App

DETERMINING THE LENGTH & WIDTH OF THE RISER
[Hr] is the Height of the Riser
[Lr] is the Length of the Riser
[Wr] is the Width of the Riser

Hr = (Height of Sand) + (Thickness of Paver)
Lr = (Hr x 2) +12
Wr = (Hr x 2) +10

EXAMPLE:
Sand = 2.00" deep and Paver = 3.00" thick

Hr = 2 + 3 = 5.00"
Lr = (5.00 x 2) + 12 = 22.00"
Wr = (5.00 x 2) + 10 = 20.00"

Fig 8: Calculation of Risers length and width

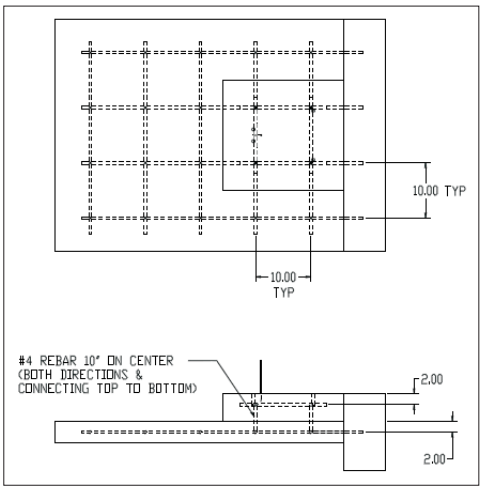
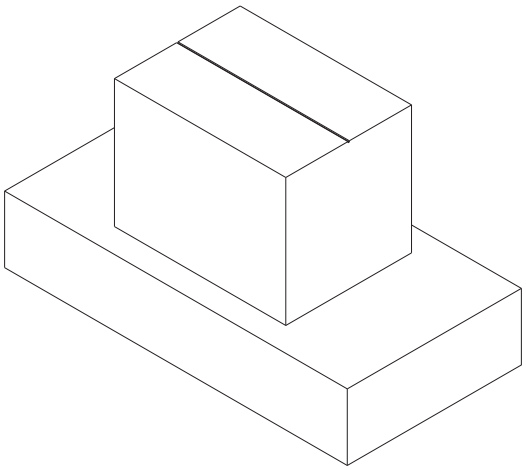


Fig 9: Reinforcement of concrete

1. To determine the proper area to install the lift, Follow the ADA guidelines, Fig. 1.
2. The minimum deck requirements are similar to those on page 7, but this application requires a Riser in addition to the footing, Fig. 7. Remove the pavers & sand from the location chosen for the lift and cut out the underlying foundation. Replace with a new slab with a Riser incorporated on top of it, Fig. 7. Use Fig. 8 to determine the correct size of the Riser. The new slab needs to be reinforced with rebar and adhered with epoxy into the remaining existing deck, Fig. 9. Simpson SET epoxy is recommended or equivalent for installation.
3. Due to Local Electrical Code, it maybe necessary to Bond the Mounting Base to the pools Bonding Grid with 8ga Copper Wire. See Fig. 7 for location. Check your Local Electrical Code for proper Bonding.
4. The proper location to install the lift is centered on the riser, use Fig. 7 and the Arm & Base assembly as a template. Make sure that the lift is an appropriate distance away from the pool wall. DO NOT lift the assembly from the actuator.
5. Return to page 8 and follow Steps 5 & 6 to finish preparations.

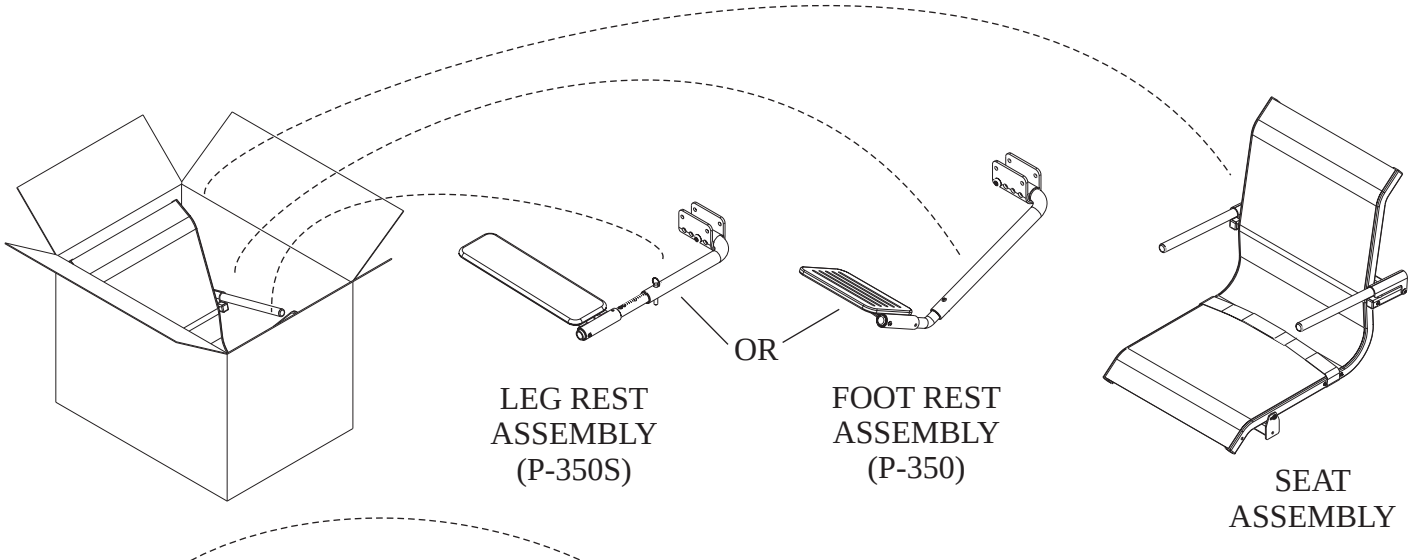
WARNING **When operating equipment, operator should ALWAYS wear Personal Protective Equipment**

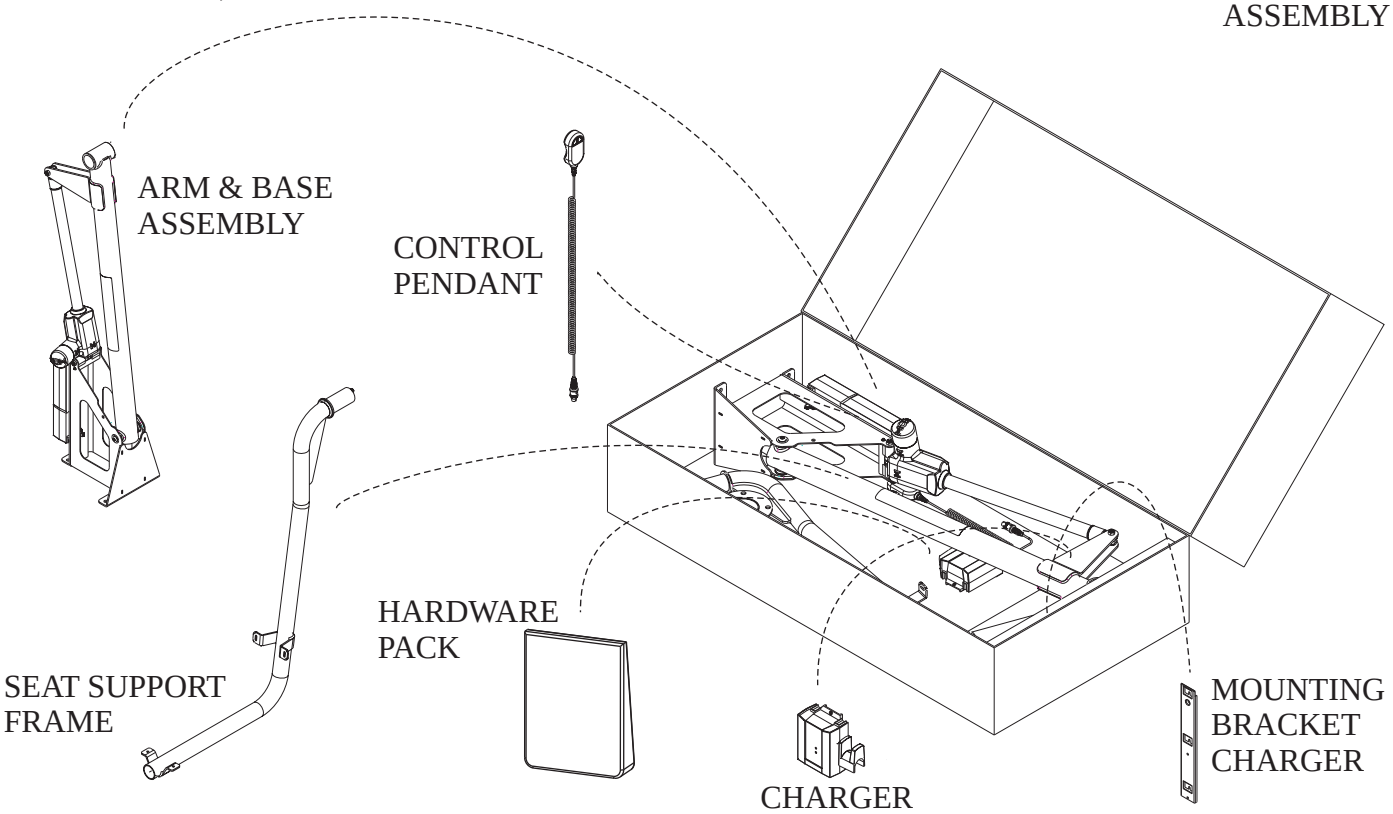


PACKAGE CONTENT

Be sure to check the contents of the boxes against the package checklist, verifying all parts are included with the lift for a proper installation. If any parts are missing or damaged, immediately contact the distributor from which you purchased the lift. DO NOT attempt to install or use the lift with any missing or damaged parts.

> ⚠ *WARNING* **NEVER attempt to lift the boxes from the ground or on/off a vehicle by yourself. Serious injuries or damage to equipment may result.**



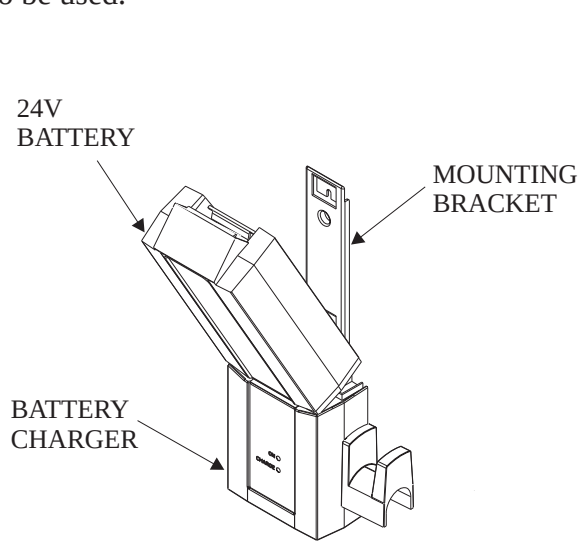


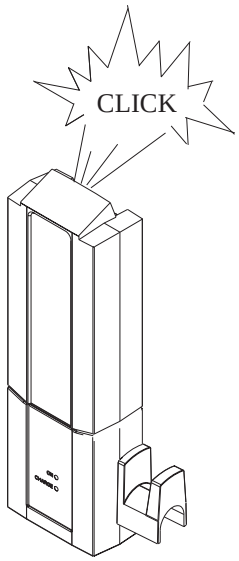
CHARGING THE BATTERY

Before using the pool lift for the first time, the 24V Battery must be fully charged. The battery should be charged for a minimum of 24 hours on its first initial charge. The battery can be left on the Battery Charger overnight or until it is needed for use. It is recommended that the battery be fully charged before each use to ensure that the lift will function for the duration of its immediate use. The battery should never stay on the lift if the lift is not being used.

1 Installing 24V Battery onto Battery Charger:

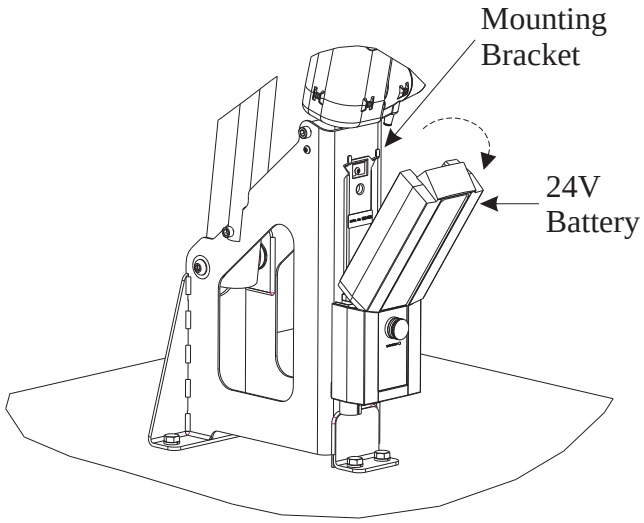
Place Battery onto Battery Charger and rotate up until the Battery engages the Mounting Bracket. The latch on the Battery will click when engaged properly and will be fixed tightly on top of the Charger. When the Charger is plugged in, the "ON" light will illuminate GREEN. When the Battery is properly mounted onto the Charger, the "Charge" light will illuminate ORANGE. Once the Battery is FULLY charged, the "Charge" light will turn off and the Battery is ready to be used.





2 Recharging 24V Battery

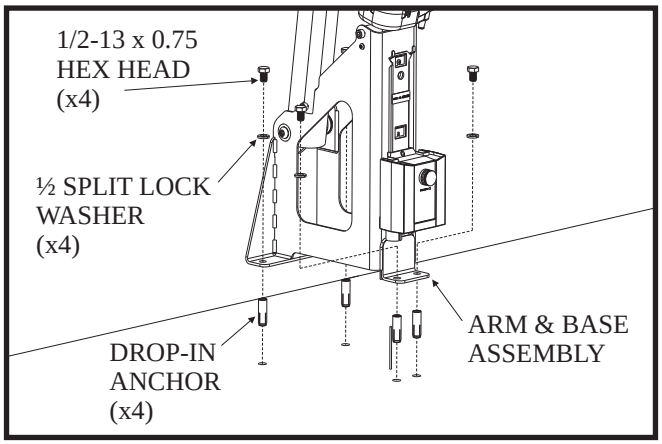
To recharge the Battery, grip the top-rear of of the Battery and squeeze the clip. This will unlatch the Battery from the Mounting Bracket. The Battery can now be installed onto the Battery Charger as described above.

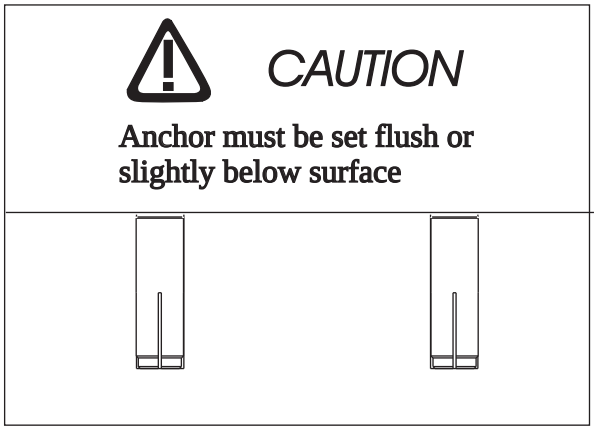


⚠ CAUTION

ALWAYS have the Battery charging on the Charger when not in use.

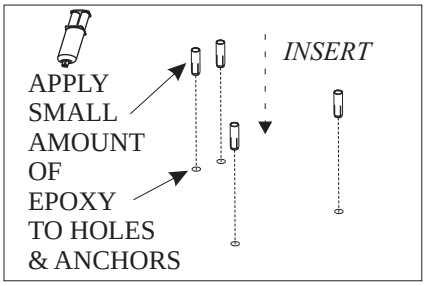
ARM & BASE ASSEMBLY

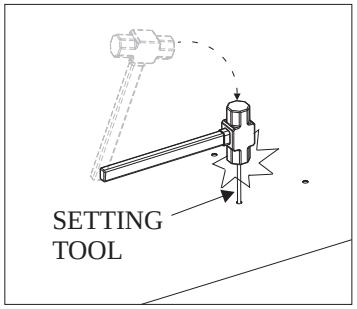




3 Insert Drop-In Anchors

Before inserting the Drop-In Anchors, apply a small amount of Epoxy into the four anchor holes and to the outside of the anchors. Insert the Drop-In Anchors into the holes and gently tap them in being careful not to damage the thread (they should sit flush with or just below the deck). Once in place, using the Setting Tool, forcefully strike the inside of the anchors to set them.



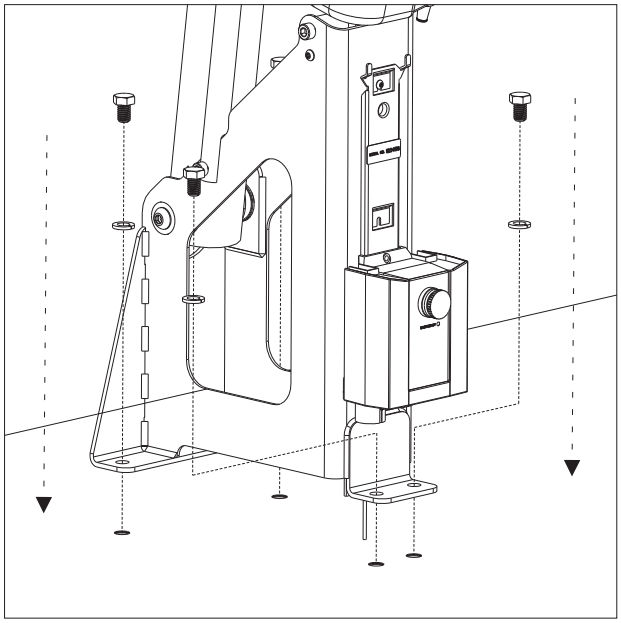


CAUTION DO NOT apply too much Epoxy

CAUTION DO NOT lift from the Actuator

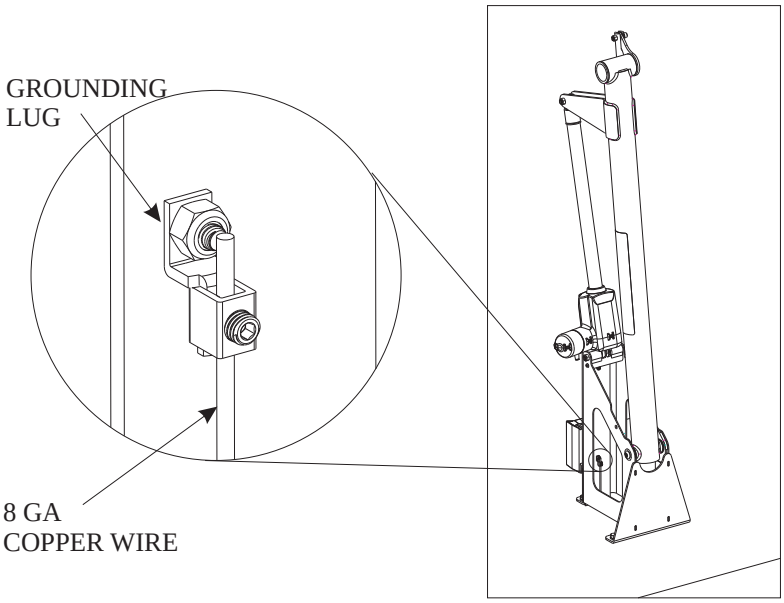
4 Fasten Arm & Base Assembly

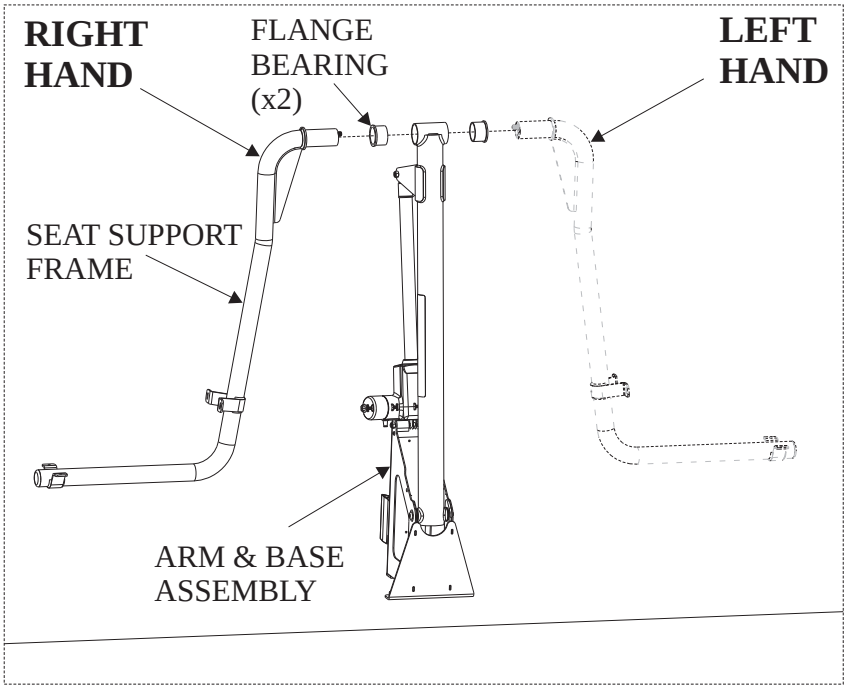
Align mounting holes with anchors, and tightly fasten with spring lock washer and bolts.



5 Attach Copper Wire

Fasten copper wire to Grounding Lug located within the Base of the assembly.
CHECK LOCAL ELECTRICAL CODE

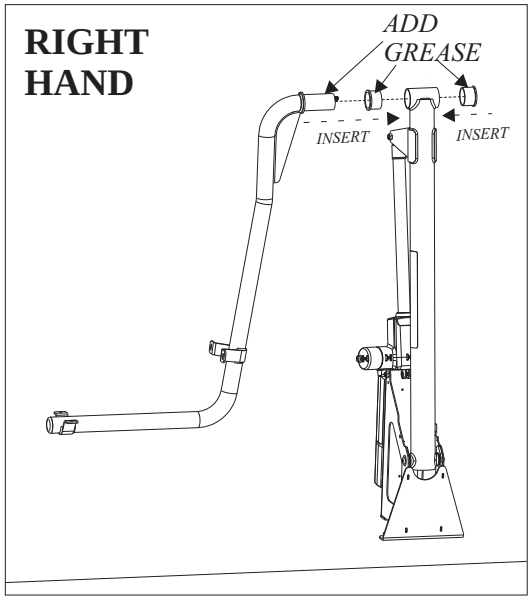




6 Attach Seat Support Frame

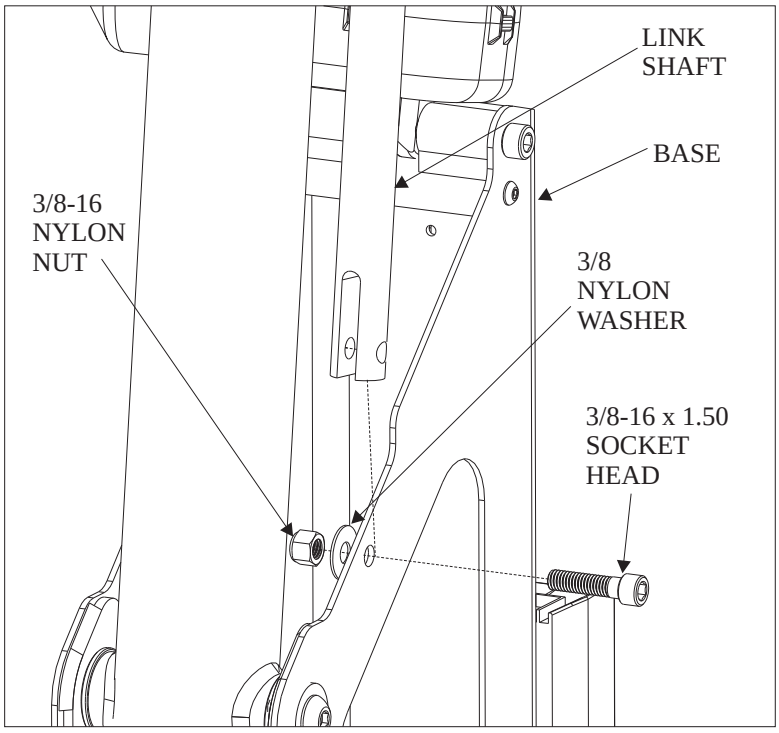
The P350 has ambidextrous seating which allows the seat to be set to face either side of the pool dependant on pool installion and/or preference, shown to the left.

Once chosen, grease the surfaces of the Flange Bearings and the Seat Support Frame, if necessary, as shown in the picture. Insert the Flange Bearings into the Arm and insert the Seat Support Frame into the bearings, below.



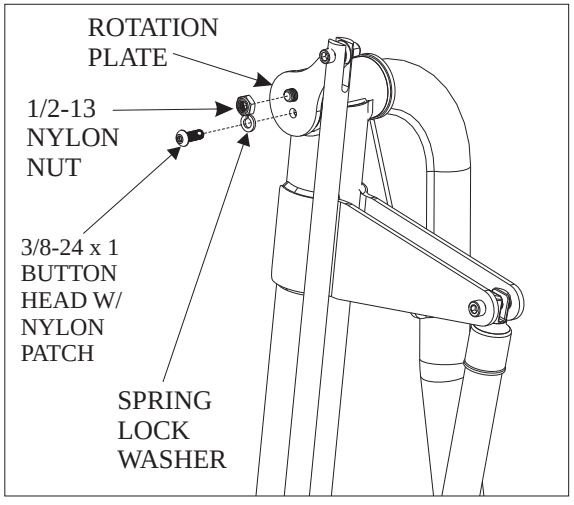
7 Link Shaft Adjustment

The Link shaft should be attached and fastened on the opposite side of the Seat Support Frame. If this is not the case, then simple unfasten the Link Shaft and attach it onto the otherside of the base.



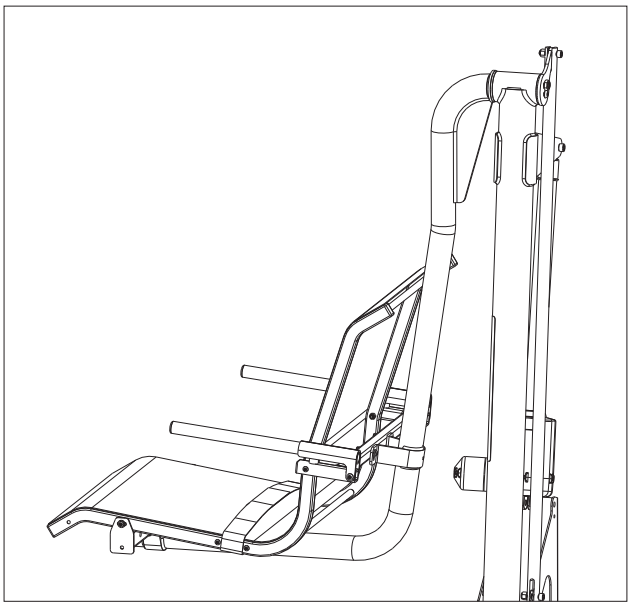
8 Attach Rotation Plate

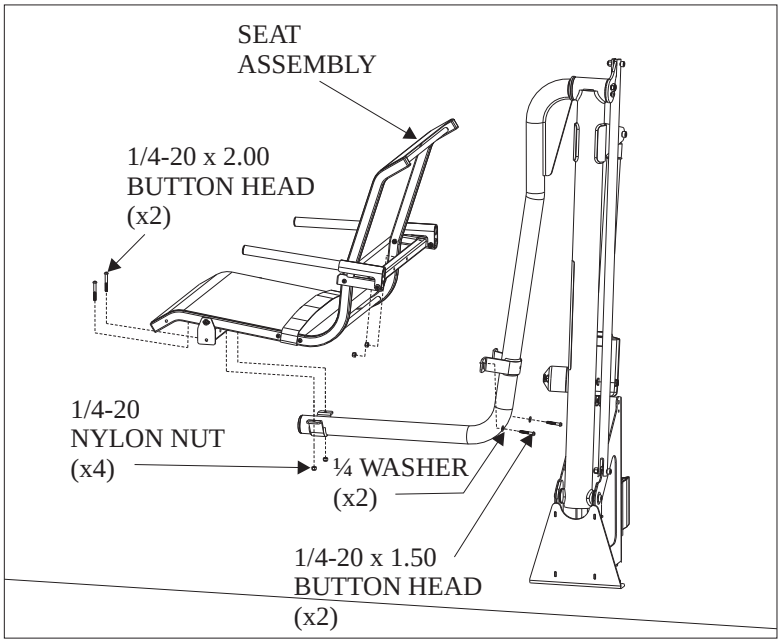
Rotate the Rotation Plate forward and fasten to Seat Support Frame with the appropriate fasteners.



9 Attach Seat Assembly

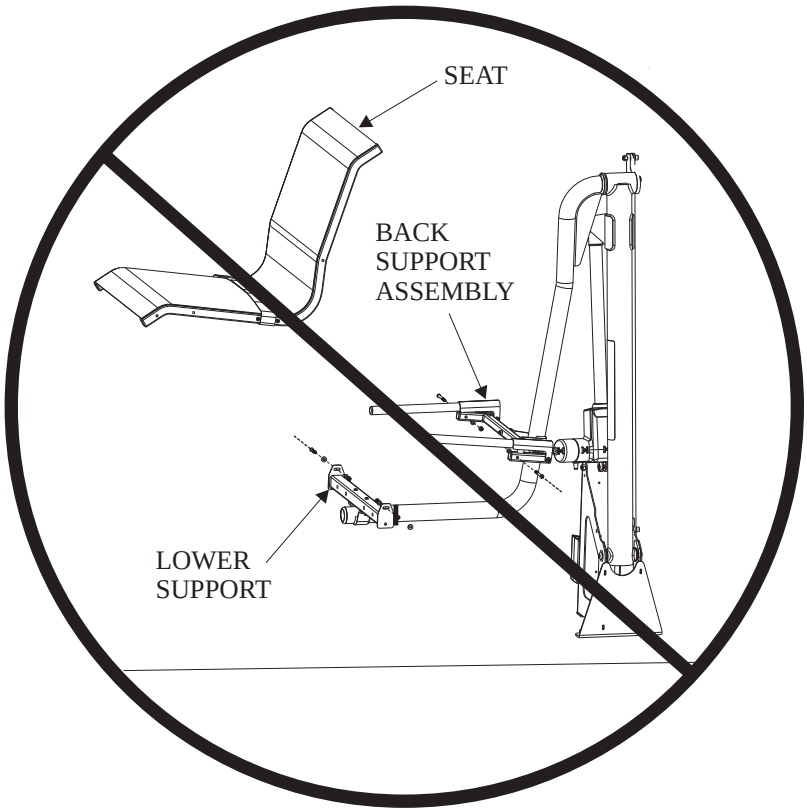
Rest Seat Assembly onto Seat Support Frame, align holes, and tightly fasten with respective fasteners.





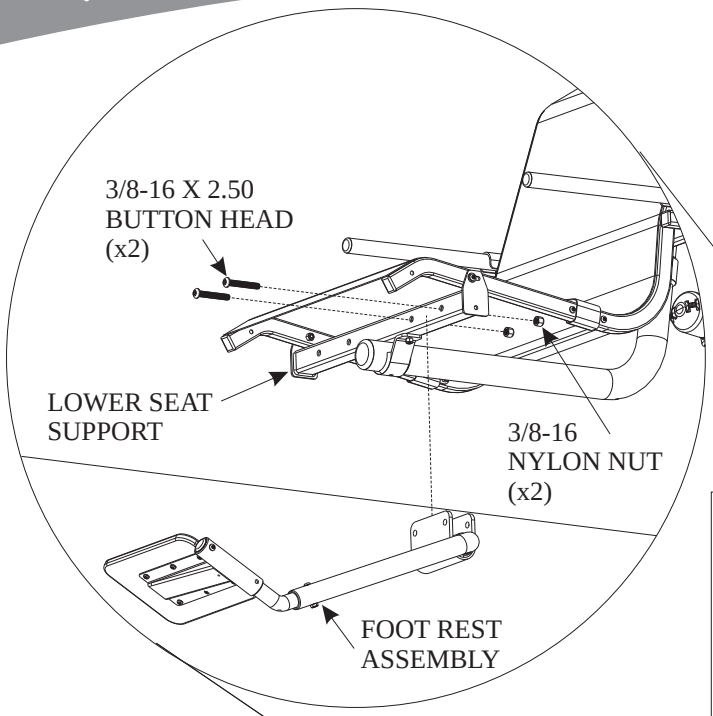
CAUTION

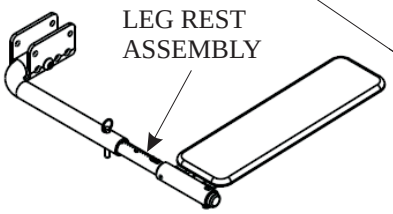
DO NOT unfasten or disassemble Seat from Back & Lower Supports.

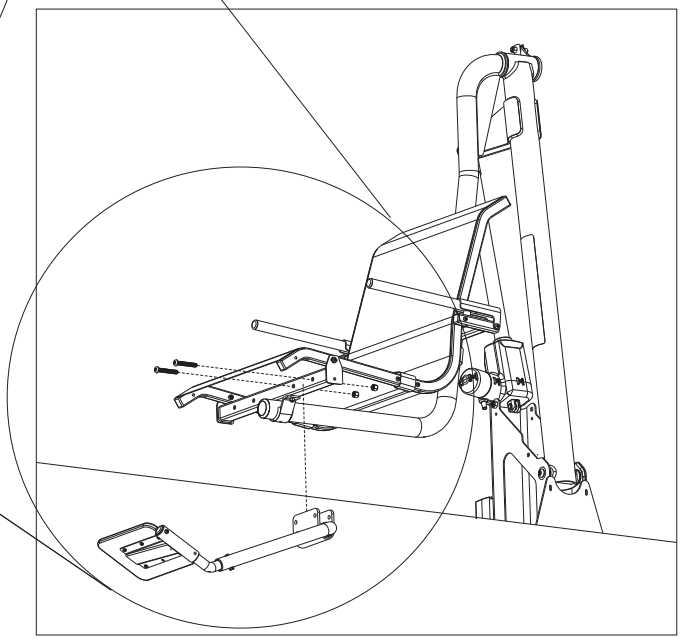


10 Attach Foot & Leg Rest Assembly

The foot rest, shown, and leg rest are designed to be ambidextrous, to allow for right & left hand seating. The Foot & Leg Rest should always be on the side nearest to the water. To attach the Assembly, simply align the holes on the Foot & Leg Rest Assembly with that of the Lower Seat Support and fasten with the supplied hardware.

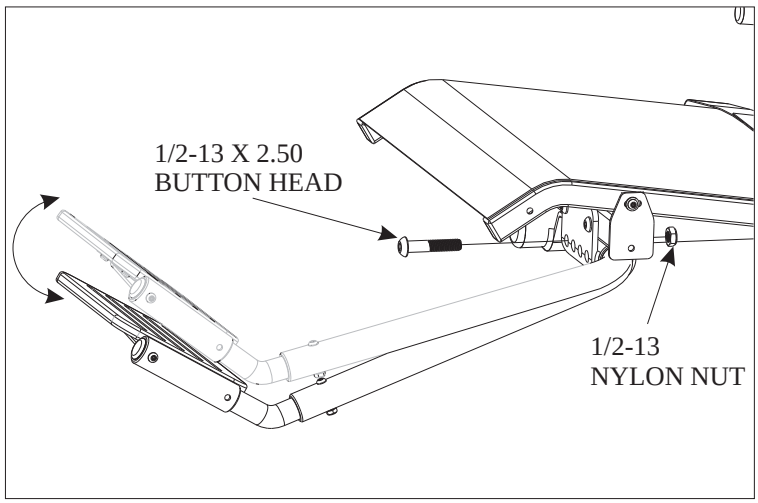


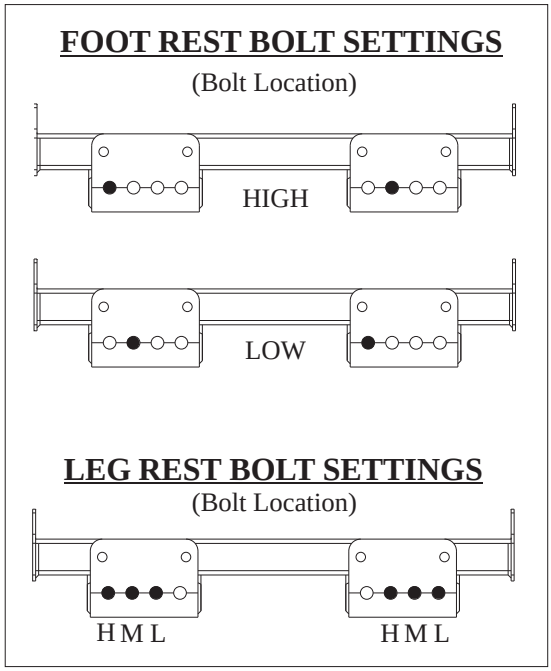




11 Foot & Leg Rest Adjustment

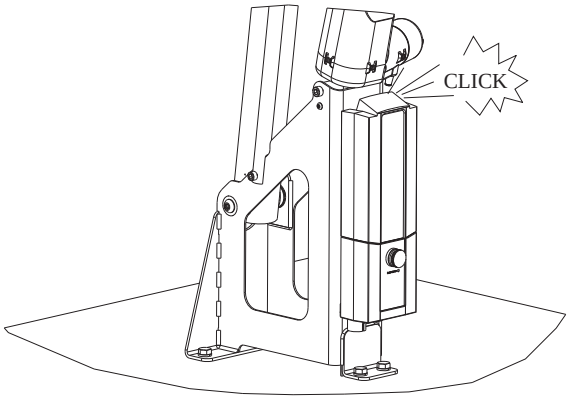
The Foot Rest has two setting, high and low, and the Leg Rest has three settings, high, medium, and low, depending on the desired height. To adjust the height of the Foot Rest, remove the bolt, adjust the height up or down, align the holes at the desired height, reinsert the bolt into the correct hole, as shown, and fasten.

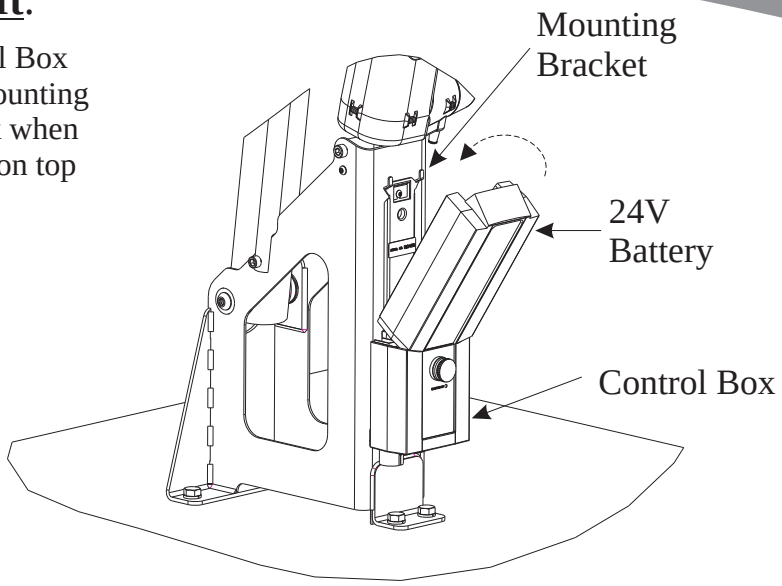




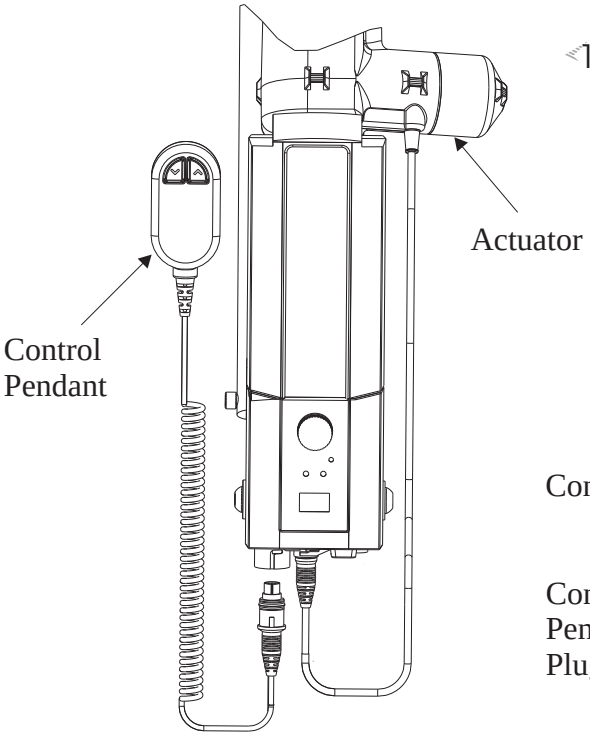
12 Installing 24V Battery onto Lift:

Place FULLY charged Battery onto Control Box and lift up until the Battery engages the Mounting Bracket. The latch on the Battery will click when engaged properly and will be fixed tightly on top of the Control Box.



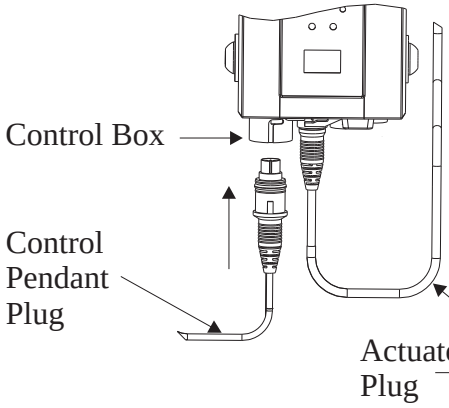


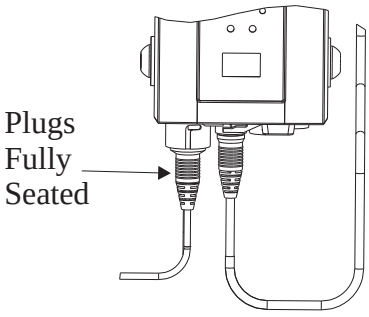
WARNING **ALWAYS detach the Battery when NOT in use and place onto the Charger to ensure a FULLY operating Battery when needed**



13 Connecting Control Pendant:

Insert Control Pendant plug into Control Box port by aligning key on plug with key way on the port. This will ensure that the pins on the plug align with that if the Control Box. Press firmly to ensure that the plug is fully seated within the port. Also, firmly press in the actuator plug to ensure that it is seated properly into its respective port.





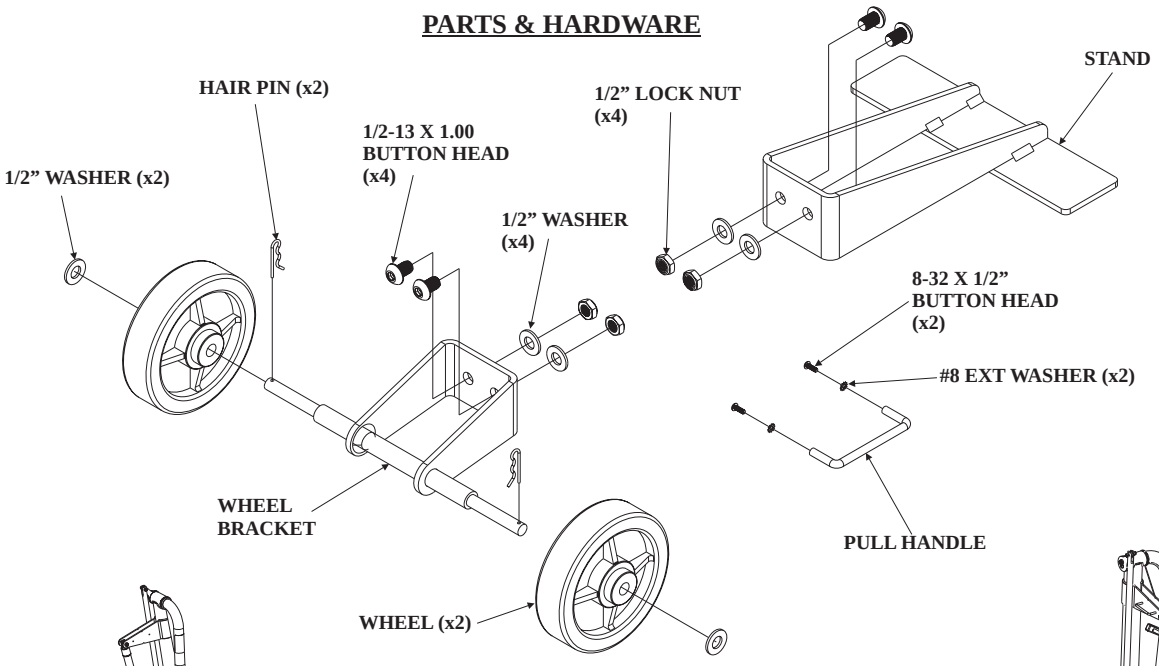
WARNING **Lift WILL NOT operate if the Control Pendant and/or the actuator plugs are NOT fully seated within their respective ports of the Control Box.**

PORTABILITY KIT

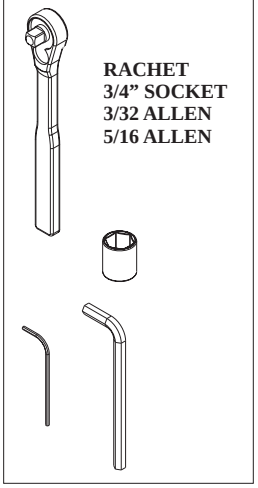
[included with P-350P]

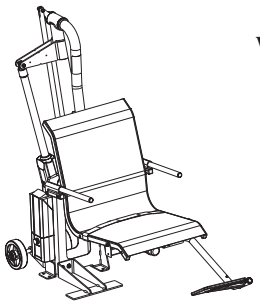
This kit is designed to allow the user/owner to transport the pool lift, P350, when not in use, to and from storage. Be sure to check the contents of the package and verify that all parts and hardware are present before installing. If any parts are missing contact the distributor from which the kit/lift was purchased.

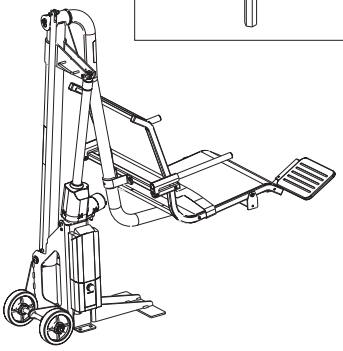
PARTS & HARDWARE



TOOL REQUIRED





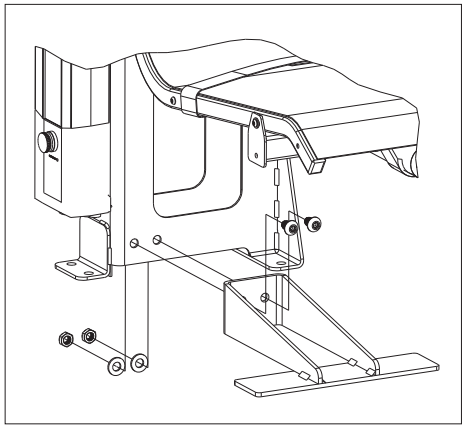


INSTALLATION

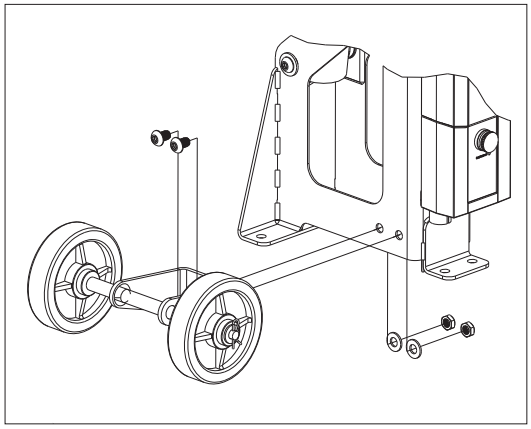
Align all parts with respective holes and tighten all fasteners. The Stand is to be installed on the **same** side as the seat and the Wheel Bracket Assembly & Pull Handle on the opposing side.

CAUTION

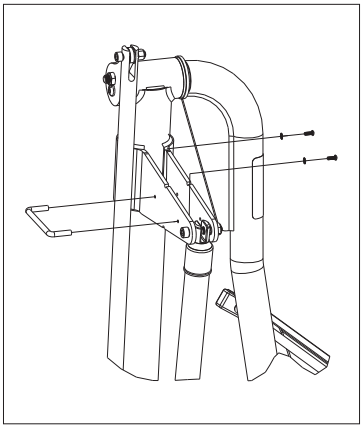
- **The lift should never be operated when not fastened to the deck or in storage.**
- **Lift should always be in its most up position when moved and/or stored.**
- **Items should never be rested on the lift or seat when not in use.**



STAND



WHEEL BRACKET ASSEMBLY

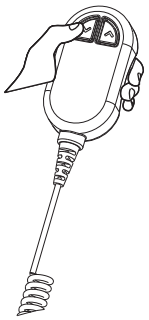


PULL HANDLE

BEFORE OPERATING THE LIFT:

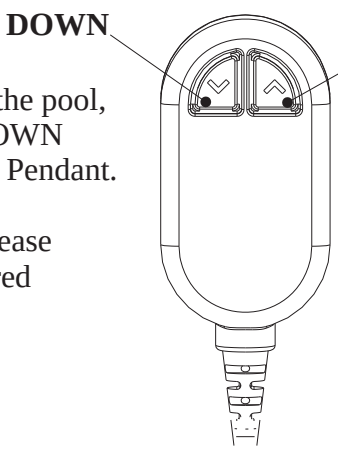
1. **Always make sure that the area around the lift is clear before operating.**
2. **Never operate the lift with any person within the operating range of the lift, including the deck and/or water.**
3. **DO NOT allow anyone to operate the lift without adult supervision.**
4. **DO NOT allow children to play on or around the lift at any time.**
5. **Check all fasteners and joints for tightness and wear before each use.**

OPERATING THE LIFT



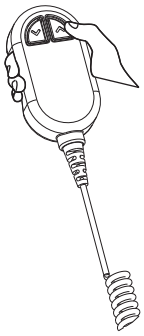
To move the lift into the pool, press and hold the DOWN button on the Control Pendant.

To STOP moving, release the button at the desired depth.



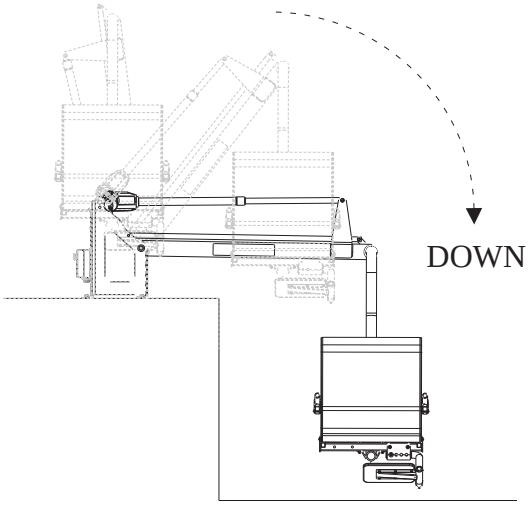
To move the lift out of the pool, press and hold the UP button on the Control Pendant.

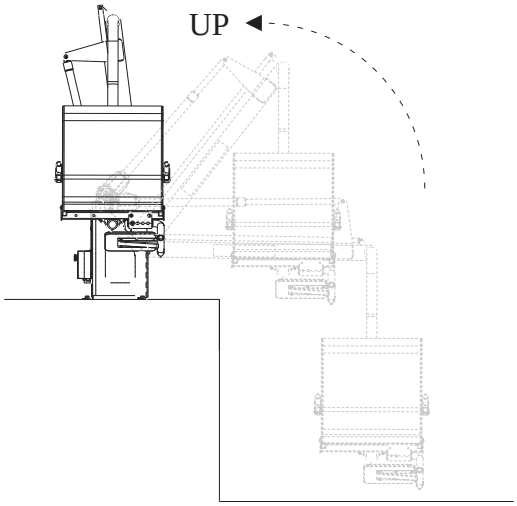
To STOP moving, release the button once the lift is at its highest point or has stopped.



CAUTION

If the "DOWN" button is NOT released, the lift will continue to a depth below the crest of the water.



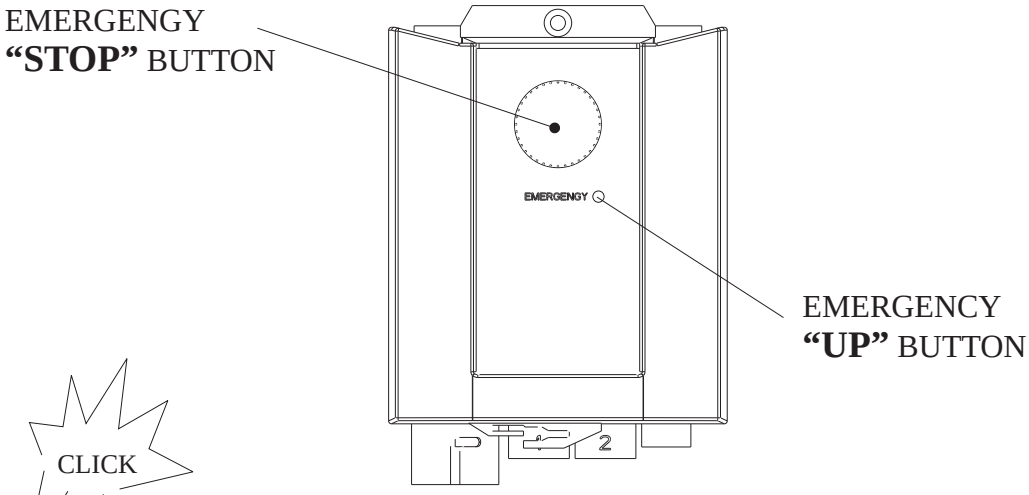


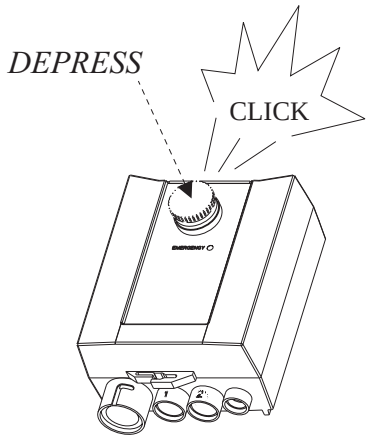
CAUTION

Lift is ALWAYS to be operated under the direct supervision of an Able-Bodied Adult.

EMERGENCY BUTTONS

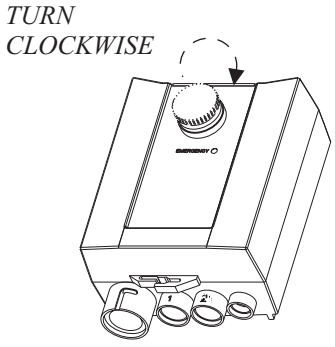
On the front of the Control Box there are two emergency buttons, “EMERGENCY STOP” & “EMERGENGY UP.”





1 Emergency “STOP” Button:

The Emergency Stop Button is the larger red button on the front of the Control Box. To ENABLE the “Emergengy Stop” button, depress the button so it clicks and locks in its depressed position. This will disable the lift and stop it immediately at the location in which the Emergency Button was depressed. The button will remain locked until it is released.



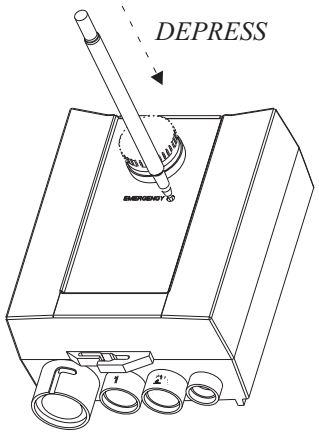
WARNING

The lift WILL NOT function until the Emergency Button has been released.

To RELEASE the “Emergency Stop” button and resume operation of lift, simply turn the button clockwise until the it pops out.

2 Emergency “UP” Button:

The Emergency Up Button is the small recessed button located next to the word “EMERGENCY” on the front of the Control Box. To use; take a pen, pencil, or any object with a point, depress the button, and hold until the lift is all the way up. This will bypass the Control Pendant and raise the lift.



WARNING

This function will only work if the Battery is sufficiently charged, properly attached, and if the Control Box is operating properly.

MAINTENANCE & CARE

The lift should be cleaned routinely to ensure the life and integrity of the lift. Cleaning product is entirely up to the owner as there are many to choose from. For routine cleaning, it is recommended to use gentle soaps, detergents, or a diluted mixture of ammonia. If scrubbing is required for tough stains, use a soft scrub with brisk rubbing.

DAILY USE:
If the lift is used daily, be sure to wash the lift at the end of each day. Wash the lift with fresh water a mild soap and a soft cloth. Do not use bristled brushes or steel wools to clean the lift as it will scrap off the powder coating. Check that the lift is working properly and then place the battery on the charger. It is recommended that the battery be charged after every use.

WEEKLY USE:
If the lift is used weekly, follow the same procedure as above. Also be sure to check all of the contact points (terminals) for damage or corrosion. If you notice corrosion gently clean the terminals. To clean corrosion from the terminals use a q-tip and some rubbing alcohol. If the corrosion is particularly stubborn try using a 3M scotch brite pad, but be careful not to damage the terminals. Apply dielectric grease to the terminals after cleaning them. This will help to prevent further corrosion. Do not leave the battery on the lift when not in use. Always store the battery on the charger whenever the lift is not being used.

MONTHLY USE:
If the lift is used monthly, follow the same steps as above. Also check the nuts and bolts to make sure they are securely fastened (this is always a good idea, no matter how often or infrequently the lift is used). Also make sure to store the battery on the charger and not on the lift. Leaving the battery on the lift for extended periods will significantly shorten the battery's life span.

STORED/OCCASIONAL USE:
If the lift is not used often and is stored for an extended period of time, follow all of the steps above. Check for rusting at all crevice, weld points, and fasteners. If you notice rusting spray some WD-40 on the affected area and take a 3M scotch brite pad and rub briskly. Afterwards be sure to wash and rinse the lift again with soap and fresh water. When storing the lift make sure it is in a dry area and covered. DO NOT STORE in or around pool chemicals.

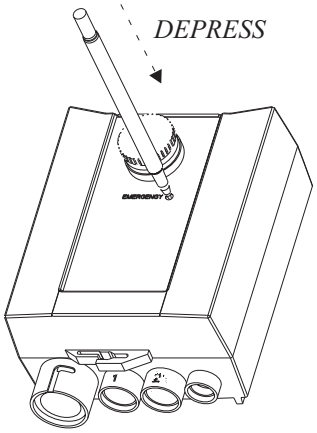
CAUTION

- ALWAYS clean the lift with FRESH water only.
- NEVER use the pool or chemically treated water for cleaning.

TROUBLESHOOTING PROCEDURE

****THE BATTERY SHOULD BE FULLY CHARGED BEFORE TROUBLESHOOTING****

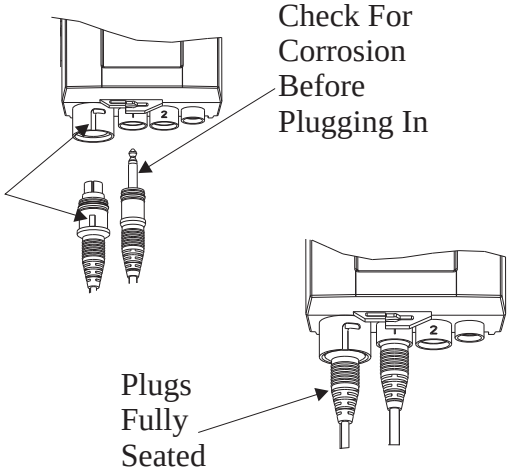
Issue: Lift stopped moving over the water.



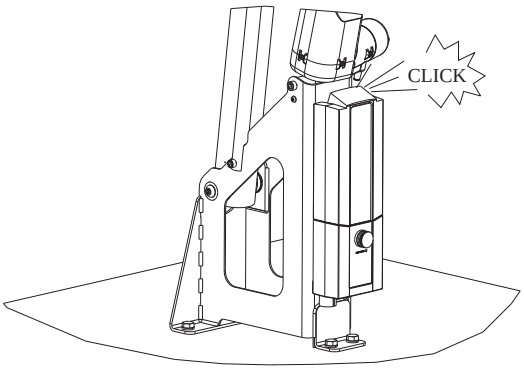
1. ***Procedure:*** Push the "EMERGENCY" BUTTON.
   If the lift gets stuck over or in the water and the Control Pendant does not raise the lift, then using a pen, pencil, or pointed object, depress the button located on the Control Box next to the word "EMERGENCY". This will bypass the Control Pendant and raise the lift. If this does not raise the lift, then the remote may be fine and the problem is with either the Battery, Control Box, or damaged cables.

Issue: Lift will not operate, when buttons on control pendant is pressed.

1. ***Procedure:*** Check Cable Connections to Control Box.
   Check underneath the Control Box to be sure that all cables are properly seated within their respective ports. The plugs should be recessed within those ports. Verify by unplugging both the Control Pendant and the Actuator cables. Check that there is no corrosion or damage to the connectors/pins. Plug the Control Pendant back into the Control Box by aligning key on plug with key way on the port. Press in firmly to ensure that the plug is fully seated within the port. For the actuator, insert the cables jack into its port and press in firmly.

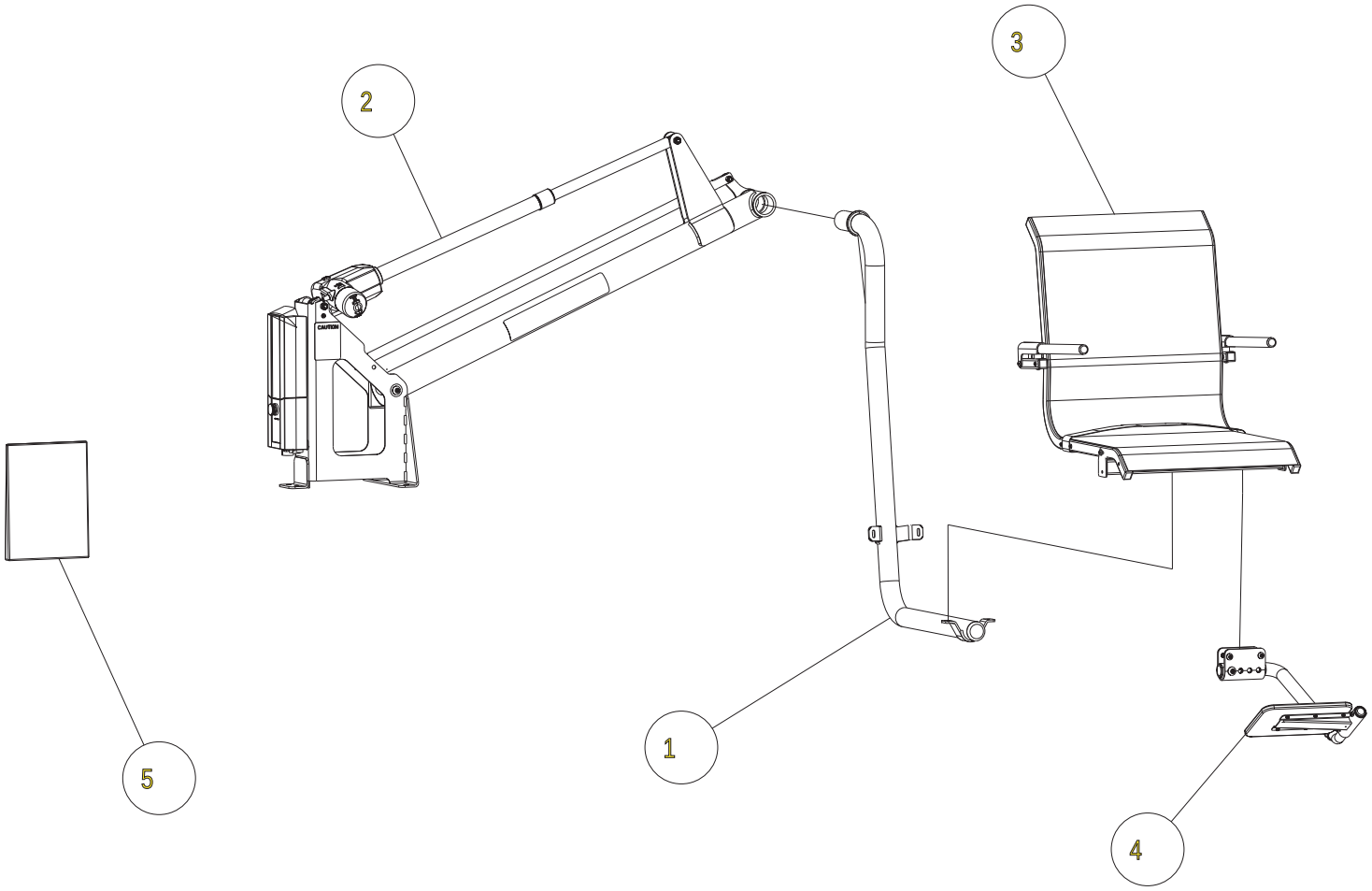


2. ***Procedure:*** Check Battery Connections.
   Check that the Battery Pack is properly secured onto the Mounting Bracket. The Battery pack should be locked in place with nearly no movement if shaken. Verify by unlatching from Mounting Bracket. Check that there is no corrosion or damage to the terminals on the Battery Pack and Control Box. If corroded or dirty, clean off using rubbing alcohol. Once cleaned, it is recommended to add dielectric grease to the terminals to prevent corrosion and to ensure good electrical contact. Reinstall the Battery Pack onto the Control Box. When properly engaged onto the Mounting Bracket, the latch on the back of the Battery Pack will "CLICK". If lift fails to lift, then try another fully charged battery. If lift still fails to operate, then the Control Box will need to be replaced. Contact an Autorized lift dealer for component replacement.



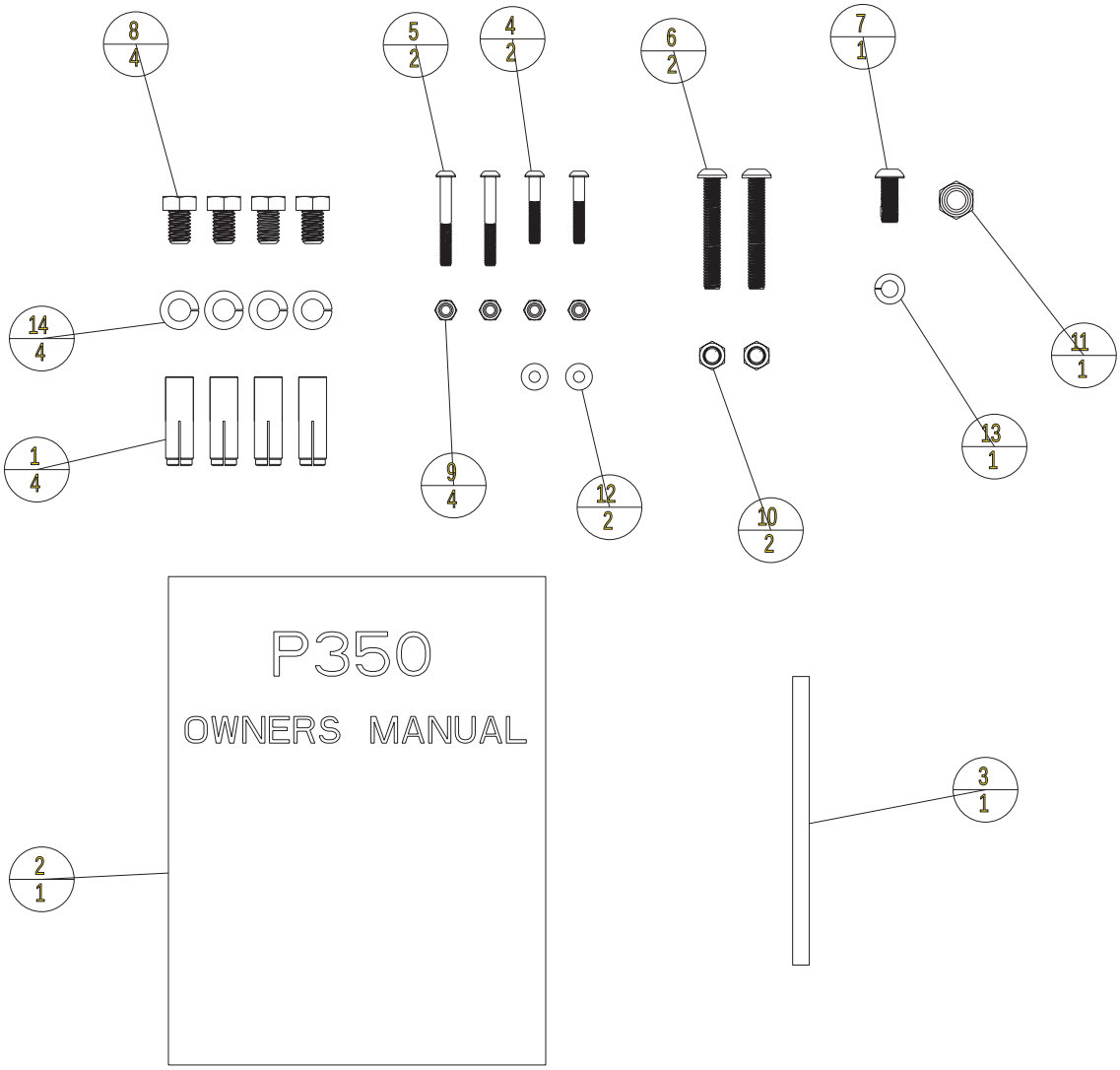
CAUTION **The lift WILL NOT function if the Battery is not charged or if the Control Box is damaged or malfunctioning.**

P350 ASSEMBLY



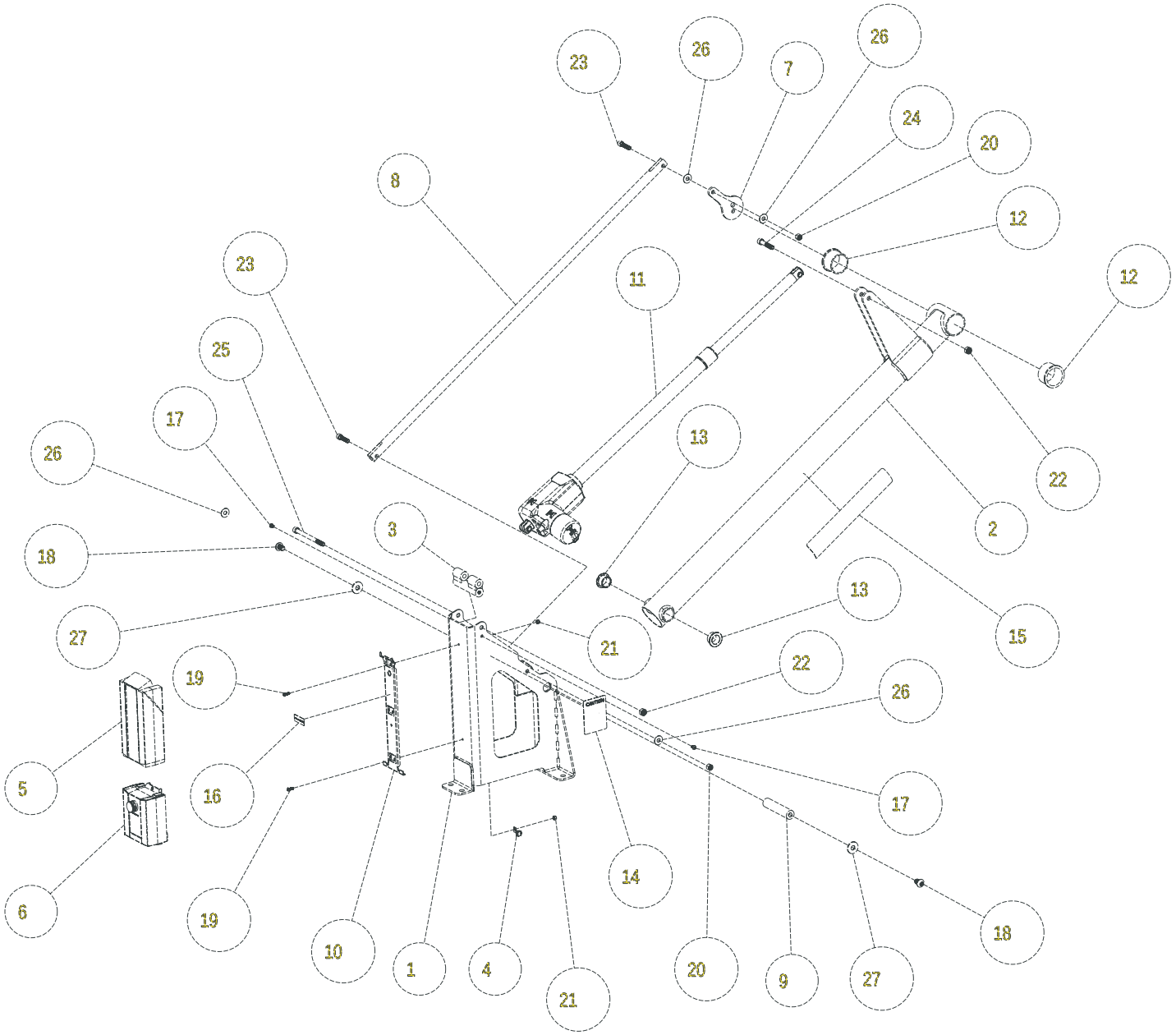
ASSEMBLY PARTS			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	210-2L02-C	SEAT SUPPORT FRAME
2	1	N/A	ARM & BASE ASSEMBLY
3	1	N/A	SEAT ASSEMBLY
4	1	N/A	FOOT REST ASSEMBLY
5	1	H00-2A05-A	HARDWARE PACK

HARDWARE PACK



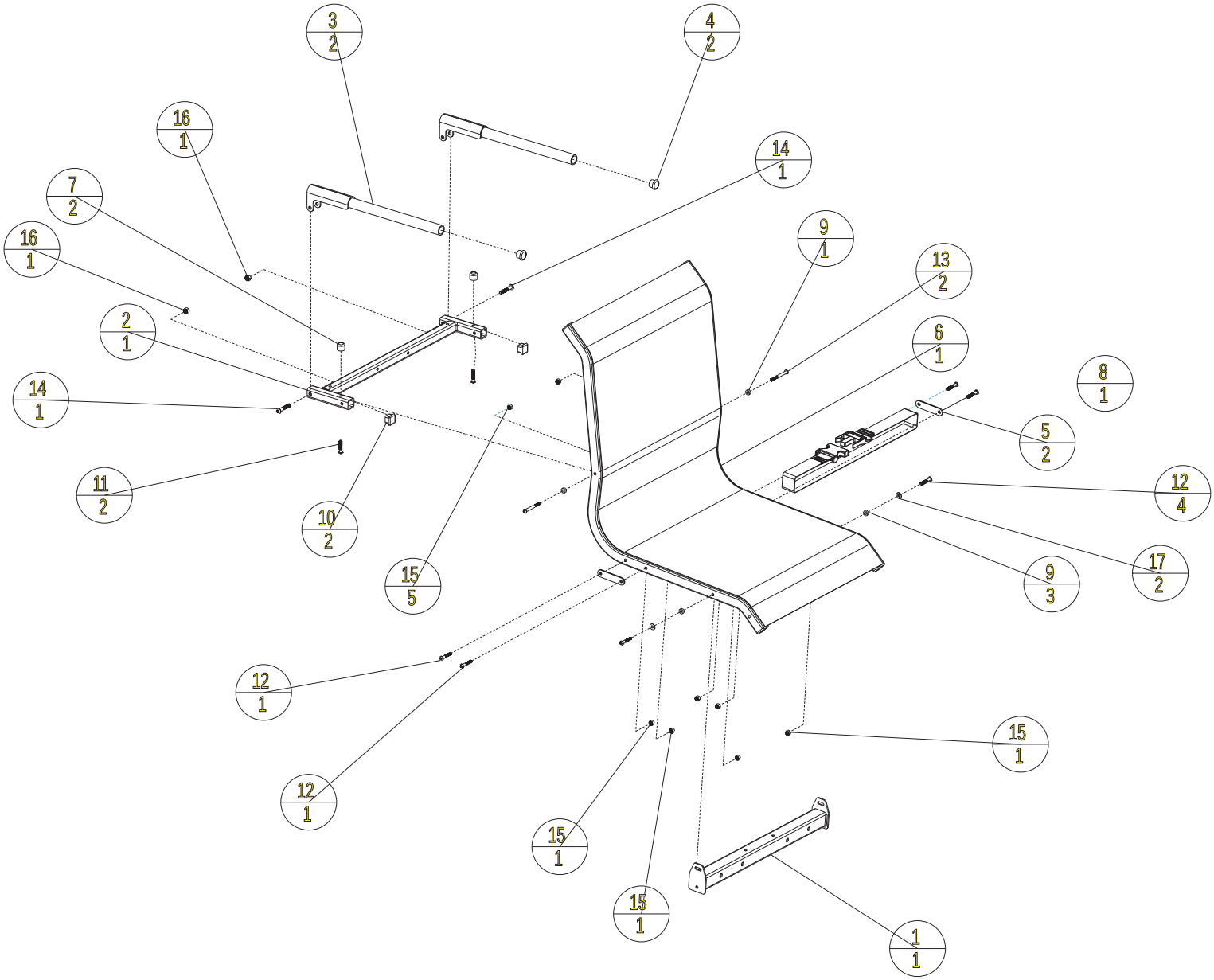
ASSEMBLY PARTS			
ITEM	QTY	PART NO.	DESCRIPTION
1	4	540-2L03-A	1/2-13 DROP IN ANCHOR
2	1	902-3L05-A	OWNERS MANUAL
3	1	SB1-037-2-6_50	3/8 DIA X 6.50" L
4	2	BHCS-0_25-20--1_50-SS	BUTTON HEAD, 1/4-20 X 1.50, SS
5	2	BHCS-0_25-20--2_00-SS	BUTTON HEAD, 1/4-20 X 2.00, SS
6	2	BHCS-0_37-16--2_50-SS	BUTTON HEAD, 3/8-16 X 2.50, SS
7	1	BHCS-0_37-24--1_00-NP-SS	BUTTON HEAD W/ NYLON PATCH, 3/8-24 X 1.00, SS
8	4	HHCS-0_50-13--0_75-SS	HEX HEAD, 1/2-13 X 0.75, SS
9	4	NUT-0_25-20-NYLOCK-SS	NYLOCK NUT, 1/4-20 , SS
10	2	NUT-0_37-16-NYLOCK-SS	NYLOCK NUT, 3/8-16, SS
11	1	NUT-0_50-13-NYLOCK-NTE-SS	NYLOCK NUT, THIN, 1/2-13, SS
12	2	WASH-0_25-0_62--0_04-RH-SS	WASHER, FLAT, 1/4", SS
13	1	WASH-0_37-0_68--0_09-SL-SS	WASHER, SPRING LOCK, 3/8 ID, SS
14	4	WASH-0_50-0_87--0_12-SL-SS	SPLIT LOCK WASHER 1/2, SS

ARM & BASE ASSEMBLY



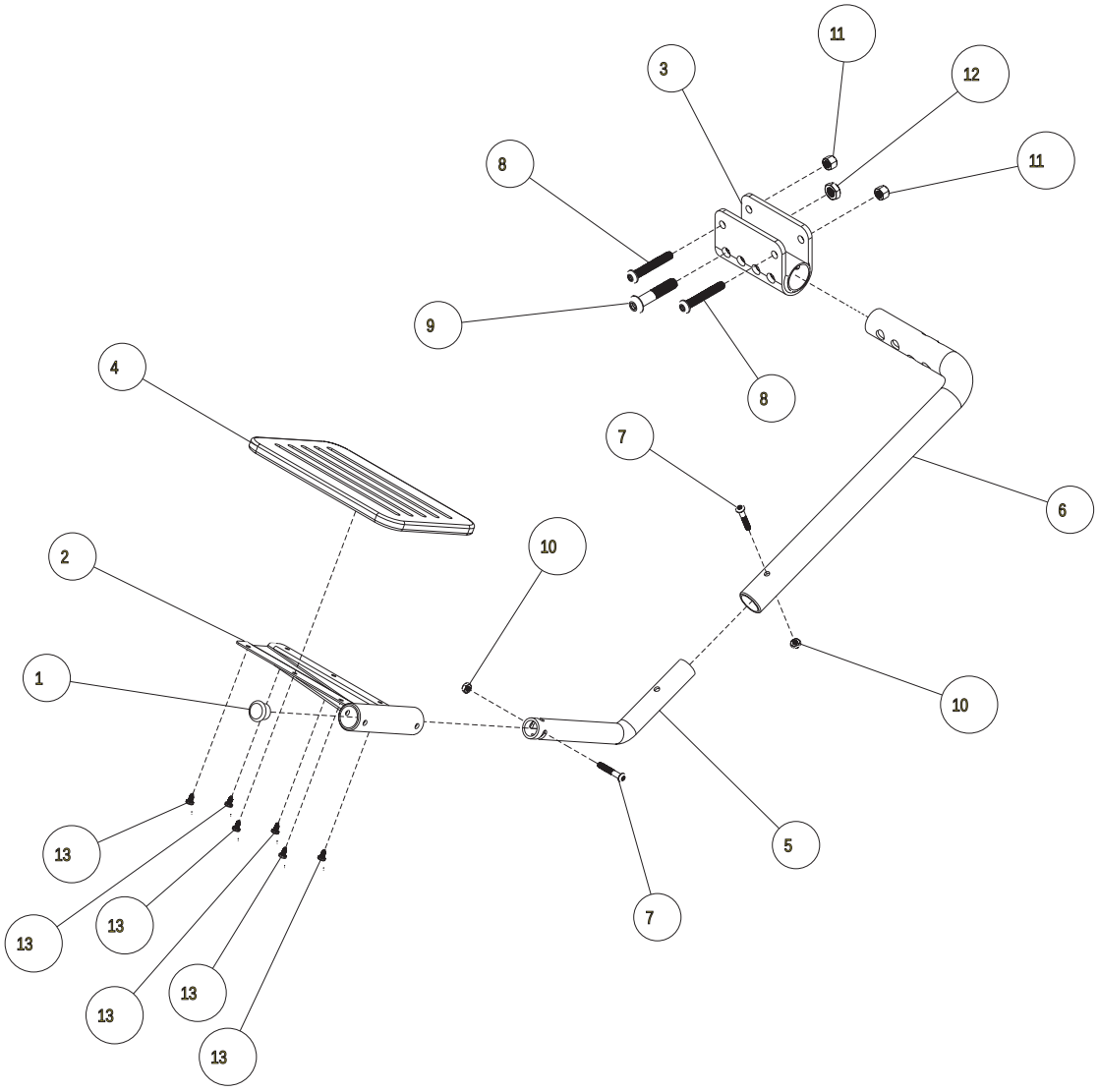
ASSEMBLY PARTS				ASSEMBLY PARTS			
ITEM	QTY	PART NO.	DESCRIPTION			PART NO.	DESCRIPTION
1	1	200-2L05-C	BASE WELDED ASSEMBLY	15	1	910-2L02-A	STICKER
2	1	201-2L02-C	ARM	16	1	ALA99995	LABEL, SERIAL NUMBER
3	1	201-2L05-C	SPACER WELDED ASSEMBLY	17	2	BHCS-0_25-20--0_37-NP-SS	BUTTON HEAD W/NYLON PATCH, 1/4-20 X 0.37, SS
4	1	299-2L02-A	COPPER SET SCREW LUG	18	2	BHCS-0_50-13--0_75-NP-SS	BUTTON HEAD W/ NYLON PATCH, 1/2-13 X 0.75, SS
5	1	320-2L02-A	BATTERY PACK	19	2	BHCS-10-24--0_62-SS	BUTTON HEAD, 10-24 X 0.62, SS
6	1	321-2L02-A	CONTROL BOX	20	2	NUT-0_37-16-NYLOCK-SS	NYLOCK NUT, 3/8-16, SS
7	1	517-2L02-C	ROTATION PLATE	21	2	NUT-10-24-NYLOCK-SS	NUT, NYLOCK, 10-32, SS
8	1	531-2L02-C	LINK SHAFT	22	2	NUT-M10-1_5-NYLOCK-SS	NYLOCK NUT, M10 X 1.5, SS
9	1	557-2L02-A	ARM PIN	23	2	SHCS-0_37-16--1_50-SS	SOCKET HEAD, 3/8-16 X 1.50, SS
10	1	599-2L02-A	CONTROL MOUNTING BRACKET	24	1	SHCS-M10-1_5--55MM-SS	SOCKET HEAD, M10-1.5 X 55, SS
11	1	801-2L02-A	ACTUATOR	25	1	SHCS-M10-1_5-130MM-SS	SOCKET HEAD CAP SCREW M10-1.5 X 130MM , SS
12	2	ALA05010	FLANGE BEARING 2 INCH	26	4	WASH-0_37-1_00-0_05-N	WASHER, 0.40 ID X 1.00 OD X 0.05, WHITE NYLON
13	2	ALA15110	BRONZE FLANGE BUSHING, 1"	27	2	WASH-0_50-1_37-0_12-RH-SS	WASHER, FLAT, 1/2", SS
14	1	ALA21094	STICKER, "CAUTION"				

SEAT ASSEMBLY



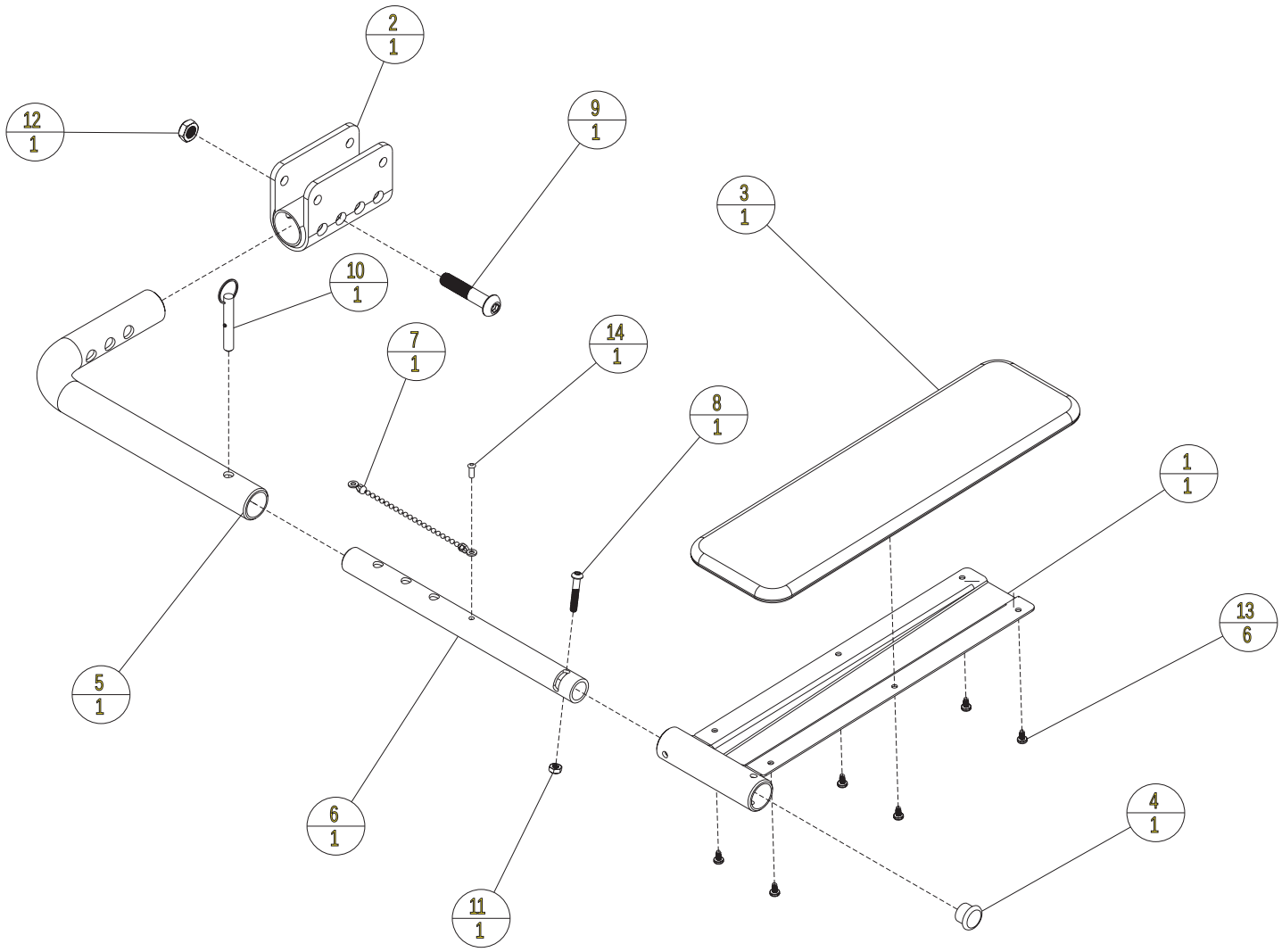
ASSEMBLY PARTS			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	204-2L02-C	SEAT LOWER SUPPORT
2	1	213-2L02-C	BACK BRACKET
3	2	214-2L02-C	ARMREST
4	2	410-2L02-A	PLUG (1" DIA RND TUBE)
5	2	542-2L02-C	PLATE
6	1	900-2L02-A	SEAT
7	2	906-2L02-A	RUBBER BUMPER
8	1	911-3L02-A	SEAT BELT
9	4	SPCR-0_25-0_50--0_18-N	SPACER, 1/4 ID X 0.18, NYLON
10	2	ALA25025FP	END CAPS
11	2	BHCS-0_25-20--1_25-SS	BUTTON HEAD, 1/4-20 X 1.25, SS
12	6	BHCS-0_25-20--1_50-SS	BUTTON HEAD, 1/4-20 X 1.50, SS
13	2	BHCS-0_25-20--2_50-SS	BUTTON HEAD, 1/4-20 X 2.50, SS
14	2	BHCS-0_31-18--1_75-SS	BUTTON HEAD, 5/16-18 X 1.75, SS
15	8	NUT-0_25-20-NYLOCK-SS	NYLOCK NUT, 1/4-20 , SS
16	2	NUT-0_31-18-NYLOCK-SS	NYLOCK, 5/16-18, SS
17	2	WASH-0_25-0_62--0_04-RH-SS	WASHER, FLAT, 1/4", SS

FOOT REST ASSEMBLY



ASSEMBLY PARTS			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	410-2L02-A	PLUG (1" DIA RND TUBE)
2	1	211-2L02-C	FOOT PLATE SUPPORT
3	1	212-2L02-C	HOUSING WELDMENT
4	1	416-2L02-A	FOOT PLATE
5	1	567-2L02-C	LOWER LEG TUBE
6	1	568-2L02-C	UPPER LEG TUBE
7	2	BHCS-0_25-20--1_50-SS	BUTTON HEAD, 1/4-20 X 1.50, SS
8	2	BHCS-0_37-16--2_50-SS	BUTTON HEAD, 3/8-16 X 2.50, SS
9	1	BHCS-0_50-13--2_50-SS	BUTTON HEAD, 1/2-13 X 2.50, SS
10	2	NUT-0_25-20-NYLOCK-NTE-SS	NYLOCK NUT, THIN, 1/4-20, SS
11	2	NUT-0_37-16-NYLOCK-SS	NYLOCK NUT, 3/8-16, SS
12	1	NUT-0_50-13-NYLOCK-NTE-SS	NYLOCK NUT, THIN, 1/2-13, SS
13	6	PHTS-10-32--0_37-SS	PAN HEAD, THREAD FORMING, 10-32 X 0.37, SS

LEG REST ASSEMBLY



ASSEMBLY PARTS			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	200-3L12-C	LEG PLATE SUPPORT
2	1	212-2L02-C	FOOT REST HOUSING
3	1	400-3L12-A	LEG REST
4	1	410-2L02-A	PLUG (1" DIA RND TUBE)
5	1	500-3L12-C	UPPER LEG TUBE
6	1	501-3L12-C	LOWER LEG TUBE
7	1	ALA16031	FAST PIN CHAIN
8	1	BHCS-0_25-20--1_50-SS	BUTTON HEAD, 1/4-20 X 1.50, SS
9	1	BHCS-0_50-13--2_50-SS	BUTTON HEAD, 1/2-13 X 2.50, SS
10	1	H106600	HOV SWA SAFETY PIN
11	1	NUT-0_25-20-NYLOCK-NTE-SS	NYLOCK NUT, THIN, 1/4-20, SS
12	1	NUT-0_50-13-NYLOCK-NTE-SS	NYLOCK NUT, THIN, 1/2-13, SS
13	6	PHTS-10-32--0_37-SS	PAN HEAD, THREAD CUTTING, 10-32 X 0.37, SS
14	1	RIV-188-SS	RIVET

Harmar

POOL LIFTS THREE YEAR NON-TRANSFERABLE LIMITED WARRANTY

Harmar warrants ONLY to the original purchaser of the product manufactured by Harmar, assembled and installed in accordance with Harmar's assembly and installation instructions, properly used and maintained, shall be free from defects in material and workmanship for a period of three (3) years from the date of original purchase, with the exception of the following items: Battery Pack and Seat each have a one (1) year warranty from the date of original purchase.

The Pool Lift has a three (3) year warranty on the frame/mechanical, electrical & motor components, excluding powder coated paint finish, which may become scratched or chipped with normal use. The Battery Pack and Seat, including seat frame, spreader bars, sling, and powder coat paint finish have a one (1) year warranty. Within the warranty period, Harmar will repair or replace any item deemed to be found defective. Normal maintenance and care of the unit, including charging the battery when not in use is recommended.

IMPORTANT: Weight capacity of pool lift seat and its seat support frame is NOT to exceed the **MAXIMUM LIFTING CAPACITY of 350 lb [159 kg]**.

The warranty is non-transferable and is subject to the following terms and conditions:

- Harmar shall not be responsible for the cost of removal or replacement of any defective Harmar product, nor for any other expenses or for damages which might be incurred in such removal or replacement.
- This warranty specifically excludes fading or staining of material, rust or corrosion of any metallic material, and cleaning of Harmar products.
- This warranty relates only to defects in material and workmanship and DOES NOT cover any damages or failures resulting from other causes, including, but not limited to Acts of God, misuse or abuse, accident or negligence, fire, improper assembly or installation, chipping or flaking of powder coating, weather damages, including ice and sand, improper maintenance of any products, or normal wear and tear from day to day use.
- Damages induces by the improper use of chemicals is not covered by this warranty.
- In the event that any products are altered, repaired, or improperly installed or improperly used by anyone without prior written approval by Harmar, all warranties will be void.
- Harmar shall not be liable for any consequential, special or incidental damages, including, but not limited to any damages for loss of use of pools or injuries to person or property, and any claims therefore are hereby specifically disclaimed and excluded. Some states do not allow the exclusion or limitation of incidental, special or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. The warranty is extended to, and enforceable only by the original retail purchaser.
- If any Harmar products fail during the warranty period as a result of a defect in material or workmanship covered by this warranty, the original retail purchaser is to contact the installer of the lift or place of purchase to assess the defect or damage. Defective parts must be returned, prepaid, to Harmar at 2075 47th Street, Sarasota, Florida 34234, for inspection prior to credit, repair or replacement at Harmar's option. Harmar's sole obligation and the exclusive remedy under this warranty is limited to such credit, repair or replacement.
- A new warranty period shall not be established for the repaired or replaced products. Such products shall remain under warranty for the remainder of the original warranty period on the original products purchased.

This written limited warranty constitutes the final, complete and exclusive statement of warranty terms. No person or organization is authorized to make any other specific or implied warranties or representations on behalf of Harmar.

The warranties set forth herein are in lieu of all other warranties, expressed or implied, which are hereby disclaimed and excluded, including without limitation any warranty of merchantability or fitness for a particular purpose or use.

The sole and exclusive remedies for breach of any and all warranties with respect to the products shall be limited to repair or replacement at Harmar's designated factory location, or duly appointed distributor, or in place at Harmar's option. In no event shall Harmar's liability exceed the entire amount paid to Harmar by th original purchaser for the failed or defective product.

In no event shall Harmar be liable for any incidental, consequential, special, indirect, punitive or exemplary damages or lost profits from any breach of this limited warranty or otherwise

THANK YOU FOR MAKING HARMAR AMERICA'S LEADER IN LIFTS

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